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Results of the 2nd Quarter 2005 Groundwater Monitoring and Sampling Event

**John Riddell
4660 Hessel Road
Sebastopol, California
(Assessor's Parcel No. 062-112-005)**

File Number 01203317.00

Prepared by:

**SCS Engineers
3645 Westwind Boulevard
Santa Rosa, California 95403**

To:

**Ms. Beth Lamb
North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403**

September 19, 2005

Ms. Beth Lamb
September 19, 2005
Page ii

LIMITATIONS/DISCLAIMER

This report has been prepared for John Riddell with specific application to a Quarterly Monitoring event for the property located at 4660 Hessel Road, Sebastopol, California. Field activities and sampling were conducted in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the professional advice presented herein.

Access to the property and the surrounding area was limited by buildings, roadways, underground and above-ground utilities and other miscellaneous site and site vicinity features. Therefore, the field exploration and points of subsurface observation were somewhat restricted.

Changes in site use and conditions may occur due to variations in rainfall, temperature, water usage, or other factors. Additional information which was not available to the consultant at the time of this quarterly monitoring event or changes which may occur on the site or in the surrounding area may result in modification to the site that would impact the summary presented herein. This report is not a legal opinion.

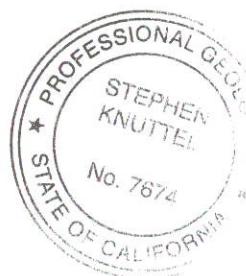
We trust this report provides the information you require at this time and we appreciate the opportunity to work with you on this project. If you require any additional information, or have any questions, please do not hesitate to contact SCS at (707) 546-9461.

LL

Kevin L. Coker REA 7887
Ca registration fees paid through 06/30/06

9/2005

Date



Stephen Knuttel

Stephen Knuttel PG 7674
CA registration fees paid through 07/31/07

20. SEPT., 2005

Date

Introduction

SCS Engineers (SCS) is pleased to present the results of the 2nd Quarter 2005 groundwater monitoring and sampling event for 4660 Hessel Road, Sebastopol, California (Assessor's Parcel No. 062-112-005). A summary of historical site investigative activities is presented in previous reports (GeoPacific 1996; PNEG¹ 1996b, 1997, 1999a, 1999b, 2000e, 2002b; SCS 2004b, 2005b). The site is located as shown on the Site Location Map, Figure 1. General site features are as shown on the Site Plans Figures 2A and 2B.

Groundwater Monitoring

Pursuant to a letter from the North Coast Regional Water Quality Control Board (NCRWQCB) (NCRWQCB, 2004), MW-1, MW-2, MW-7D, MW-8, MW-9D and MW-10 had been placed on a semi-annual sampling program which will coincide with semi-annual sampling of domestic wells DW-1, DW-MB, and DW-4. These changes are reflected herein. A subsequent letter from the NCRWQCB (NCRQCB, 2005a) has requested additional changes to the monitoring program, a partial response to which has been submitted to the NCRWQCB (SCS, 2005c).

Depth to groundwater measurements were collected from each of the project monitoring wells on June 8, 2005. Depth to groundwater measurements in the shallow wells ranged from approximately 2 to 5 feet below existing ground surface (bgs), and in the deep wells ranged from approximately 0.5 to 3 feet bgs. The depth to groundwater in the stand pipe was 5.81 feet below the top of casing. The depth to groundwater measurements and casing elevations were used to calculate groundwater flow direction and gradient for both the shallow and the deep wells. Casing and groundwater elevations are reported in feet relative to mean sea level. Depth to groundwater measurements are reported in feet. The groundwater flow direction from the shallower wells was interpolated to be north/northwest at a gradient of 0.04. The groundwater flow direction from the deeper wells was interpolated to be Northerly at a gradient of 0.03. Historical and current groundwater elevation data are presented in Tables 1 and 2, and on Figures 2A and 2B. Groundwater flow direction in the shallow wells at the site has been predominantly north to northwest at and around the site, at gradients ranging from 0.01 to 0.04, and in the deep wells has been predominantly north to northeast at gradients ranging from 0.01 to 0.05.

Groundwater Sampling

After depth to groundwater measurements were collected, each of the wells sampled was checked for the presence of free product by both subjective observation and using an oil/water interface probe. No free product was detected by the oil/water interface probe, although Analytical Sciences (AS) reported the presence of floating product in MW-20. Each well was purged of approximately 5 gallons of groundwater, prior to sampling, using a submersible pump. The creek standpipe was not

¹ Pacific Northwest EnviroNet Group, Inc. (PNEG) became part of SCS in July 2003.

purged prior to sample collection. Field measurements were collected for temperature, pH, conductivity, turbidity, and dissolved oxygen during purging to help demonstrate that fresh groundwater was entering the well casing for sampling. Each well was allowed to recover prior to sampling. The groundwater samples were obtained using a separate disposable bailer for each well and were transferred into the appropriate containers supplied by the laboratory for analysis. The groundwater samples were labeled, stored under refrigerated conditions, and transported under Chain-of-Custody documentation to Analytical Sciences (AS) in Petaluma CA. AS is a California Department of Health Services certified laboratory for the analyses requested. Copies of AS' current certifications have been reviewed and are on file. All samples were collected following SCS' Standard Soil and Water Sampling Procedures and QA/QC Protocol. Information obtained during sampling was recorded on field sampling forms from which Well Purge Records were prepared, copies of which are presented in Appendix A. Purge water generated from well sampling is stored at the site in 55-gallon UN/DOT-approved drums, pending disposal.

Domestic Well, Stand Pipe, and Stream Sampling

Domestic well numbers identified as DW-1, DW-3, DW-4, DW-HD, DW-HD2, and DW-4615 (Figure 2A), corresponding to the domestic wells located at 4660, 4660B, 4620, and 4615 Hessel Road, have been sampled on semi-annual schedules since February 2001. Sampling of DW-4615 is being performed on a quarterly basis (NCRWQCB, 2002). DW-3, DW-4, DW-HD, and DW-HD-2 will be removed from the sampling program beginning with the 3rd quarter 2005 pursuant to a directive from the NCRWQCB (NCRWQCB, 2005a). DW-3, DW-HD2 and DW-4615 were sampled on June 8, 2005. The domestic well samples were collected by allowing the faucet from the wells to run for approximately five minutes prior to sample collection. The samples were handled and transported as previously described for the monitoring well samples.

A sample was collected from the stand pipe on June 8, 2005 using a disposable bailer. The sample was handled and transported as previously described for the monitoring well samples. Stand pipe sample analytical results are presented in Table 5.

Two water samples were collected from the stream which flows northeasterly along the western side of the investigation area during previous sampling events in March and June 2004 (SCS, 2004d). Stream samples were not collected from the stream in September 2004, January, March, or June 2005. All samples collected from the stream to date have been below the RDL for all target analytes. The samples were collected by lowering a clean disposable bailer into the flowing water. The samples were then transferred into the appropriate laboratory-supplied containers and handled in a similar manner as the monitoring well groundwater samples. Recent and historical stream sample results are summarized in Table 5.

Laboratory Analysis

The groundwater samples collected from the monitoring wells, standpipe, and domestic wells were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) by EPA Method 5030/8015M, and for volatile organic compounds (VOCs) by EPA Method 8260B full scan reporting all peaks

Groundwater Analytical Results

Groundwater analytical results for the project monitoring wells sampled on June 8, 2005 are summarized in Table 4 and contoured on Figures 3A through 5B. Historical and recent groundwater analytical results are presented in Table 4, and plotted on time versus concentration diagrams, Diagrams A through F. A copy of the laboratory analytical report is also presented in Appendix B.

The samples collected from domestic wells DW-HD2, DW-3, and DW-4615 on June 8 and 9, 2005 were below the laboratory report detection limit (RDL) for all target analytes. Copies of the analytical reports are presented in Appendix B; recent and historical domestic well sample analytical results are summarized in Table 3.

Project Update

The additional site investigation as proposed in SCS' Work Plan (SCS, 2004e) was completed in February 2005 and a report of findings was submitted to the NCRWQCB (SCS, 2005b), in which SCS recommended the preparation of a Corrective Action Plan/Feasibility Study for the Site (SCS, 2005b). The NCRWQCB subsequently issued a letter concurring with the preparation of a FS/CAP (NCRWQCB, 2005), and additionally requesting further on and off site characterization, revising the Site monitoring program, and a complete surface water groundwater interaction report. SCS has initiated the preparation of a FS/CAP and Work Plan which will be submitted upon completion. The named reports will address the additional information which has been recently requested by the NCRWQCB.

The NCRWQCB's letter (NCRWQCB, 2005a) also directed a revised monitoring program at the Site as follows: monitoring wells MW-1, MW-2, MW-3, MW-5, MW-7, MW-8, MW-9, MW-10, MW-11, and MW-14, and domestic wells DW-3, DW-4, DW-HD, and DW-HD2 to be removed from the Site monitoring program; and MW-4, MW-6, MW-12, and MW-13 to be placed on a semi-annual monitoring program. SCS issued a response letter (SCS, 2005c) concurring with the NCRWQCB's recommendation with the following exceptions, MW-3 and MW-9D continue to be sampled on an annual monitoring schedule. The NCRWQCB concurred with the changes to the sampling schedule (NCRWQCB, 2005b) and the changes will be implemented during the 3rd quarter 2005 monitoring and sampling event which is scheduled for the end of September 2005.

Attachments
File No. 01203317.00

- Figure 1: Site Location Map
Figure 2A: Site Plan Groundwater Flow Direction and Gradient - Shallow Wells, June 2005
Figure 2B: Site Plan Groundwater Flow Direction and Gradient - Deep Wells, June 2005
Figure 3A: Isoconcentration Map - TPH-g in Shallow Wells for June 2005
Figure 3B: Isoconcentration Map - TPH-g in Deep Wells for June 2005
Figure 4A: Isoconcentration Map - ΣBTEX in Shallow Wells for June 2005
Figure 4B: Isoconcentration Map - ΣBTEX in Deep Wells for June 2005
Figure 5A: Isoconcentration Map - EDC in Shallow Wells for June 2005
Figure 5B: Isoconcentration Map - EDC in Deep Wells for June 2005

Key to Diagrams and Tables

- Diagram A: TPH-g & Groundwater Elevation vs Time - Shallow Wells
Diagram B: TPH-g & Groundwater Elevation vs Time - Deep Wells
Diagram C: ΣBTEX & Groundwater Elevation vs Time - Shallow Wells
Diagram D: ΣBTEX & Groundwater Elevation vs Time - Deep Wells
Diagram E: EDC & Groundwater Elevation vs Time - Shallow Wells
Diagram F: EDC & Groundwater Elevation vs Time - Deep Wells
Table 1: Groundwater Flow Direction and Gradient for Shallow Wells
Table 2: Groundwater Flow Direction and Gradient for Deep Wells
Table 3: Domestic Well Analytical Results
Table 4: Monitoring Well Analytical Results
Table 5: Surface Water Analytical Results

Appendix A

Well Purge Records, dated June 8, 2005

Appendix B

- Analytical Sciences report #5060906, dated June 17, 2005
Analytical Sciences report #5060907, dated June 17, 2005
Analytical Sciences report #5060908, dated June 17, 2005
Analytical Sciences report #5060909, dated June 17, 2005
Analytical Sciences report #5060910, dated June 17, 2005

References
File No. 01203317.00

- GeoPacific, 1996. Initial Hydrogeologic Investigation, May 31.
NCRWQCB, 2002. Regulatory Correspondence from B. Lamb to J. Riddell, August 20.
NCRWQCB, 2004. Regulatory Correspondence from B. Lamb to J. Riddell, September 13.
NCRWQCB, 2005a. Work Plan/FS/CAP Directive from B. Lamb to J. Riddell, August 4.
NCRWQCB, 2005b. Regulatory letter re: revised sampling program from B. Lamb to J. Riddell, August 19.

- PNEG, 1996b. Report of Soil Investigation at 4660 Hessel Road, Sebastopol, California, May 16.
- PNEG, 1997. Additional Information Regarding the Report of Soil Investigation and Work Plan for Additional Site Investigation at 4660 Hessel Road, Sebastopol, California, December 24.
- PNEG, 1999a. Report of Gas Pipeline Trench Investigation at 4660 Hessel Road, Sebastopol, California, March 25.
- PNEG, 1999b. Report of Investigation at 4660 Hessel Road, Sebastopol, California, August 31.
- PNEG, 1999c. Limited Work Plan for 4660 Hessel Road, Sebastopol, California, October 25.
- PNEG, 1999d. Report on the October Quarterly Monitoring at 4660 Hessel Road, Sebastopol, California, December 9.
- PNEG, 2000a. Report on the January 2000 Quarterly Monitoring at 4660 Hessel Road, Sebastopol, California, March 1.
- PNEG, 2000b. Feasibility Study to Remediate Petroleum Hydrocarbons in the Soil and Groundwater at 4660 Hessel Road, Sebastopol, California, April 28.
- PNEG, 2000c. Results of the 2nd Quarter 2000 Monitoring Event and Domestic Well Sampling at 4660 Hessel Road, Sebastopol, California, July 11.
- PNEG, 2000d. Results of the 3rd Quarter 2000 Monitoring Event and Domestic Well Sampling at 4660 Hessel Road, Sebastopol, California, September 5.
- PNEG, 2000e. Report of Investigation, 4th Quarter 2000 Monitoring Event with Domestic Well Sampling, and Interim Remediation Plan at 4660 Hessel Road, Sebastopol, California, December 29.
- PNEG, 2001a. Results of the 1st Quarter 2001 Monitoring Event and Domestic Well Sampling Event at 4660 Hessel Road, Sebastopol, California, April 3.
- PNEG, 2001b. Work Plan for 4660 Hessel Road, Sebastopol, California, July 13.
- PNEG, 2001c. Results of the 2nd Quarter 2001 Monitoring Event and Domestic Well Sampling Event at 4660 Hessel Road, Sebastopol, California, July 30.
- PNEG, 2001d. Results of the 3rd Quarter 2001 Groundwater Monitoring and Domestic Well Sampling Event at 4660 Hessel Road, Sebastopol, California, October 17.
- PNEG, 2002a. Results of the 4th Quarter 2001 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, January 14.
- PNEG, 2002b. Report on Excavation at 4660 Hessel Road, Sebastopol, California, February 27.
- PNEG, 2002c. Results of the 1st Quarter 2002 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, May 15.
- PNEG, 2002d. Results of the 2nd Quarter 2002 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, July 18.
- PNEG, 2002e. Results of the 3rd Quarter 2002 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, September 24.
- PNEG, 2002f. Work Plan to Study the Surface Water-Groundwater Interaction at 4660 Hessel Road, Sebastopol, California , December 12.
- PNEG, 2003a. Results of the 4th Quarter 2002 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, January 21.
- PNEG, 2003b. Work Plan for Additional Investigation at 4660 Hessel Road, Sebastopol, California, February 21.
- PNEG, 2003c. Results of the 1st Quarter 2003 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, April 24.

PNEG, 2003d. Results of the 2nd Quarter 2003 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, July 10.

SCS, 2003a. Results of the 3rd Quarter 2003 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, October 8.

SCS, 2004a. Results of the 4th Quarter 2003 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, January 12.

SCS, 2004b. Results of Additional Subsurface Investigation and Work Plan for Additional Subsurface Investigation at 4660 Hessel Road, Sebastopol, California, April 30.

SCS, 2004c. Work Plan for Additional Subsurface Investigation at 4660 Hessel Road, Sebastopol, California, July 20.

SCS, 2004d. Results of the 2nd Quarter 2004 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, August 10.

SCS, 2004e. Work Plan Addendum, September 2.

SCS, 2004f. Results of the 3rd Quarter 2004 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, November 15.

SCS, 2005a. Results of the 4th Quarter 2004 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, April 7.

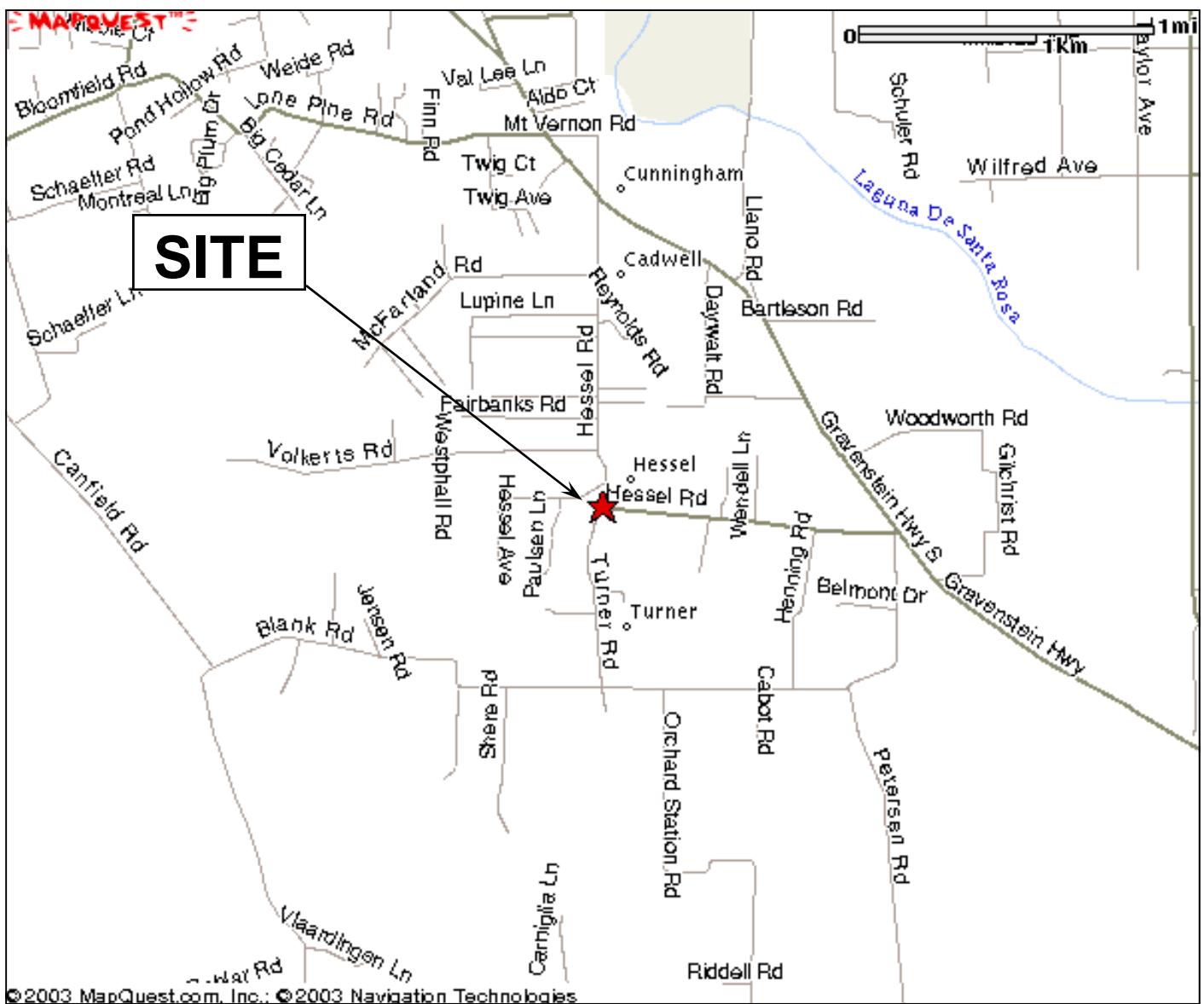
SCS, 2005b. Results of Additional Subsurface Investigation at 4660 Hessel Road, Sebastopol, California, May 13.

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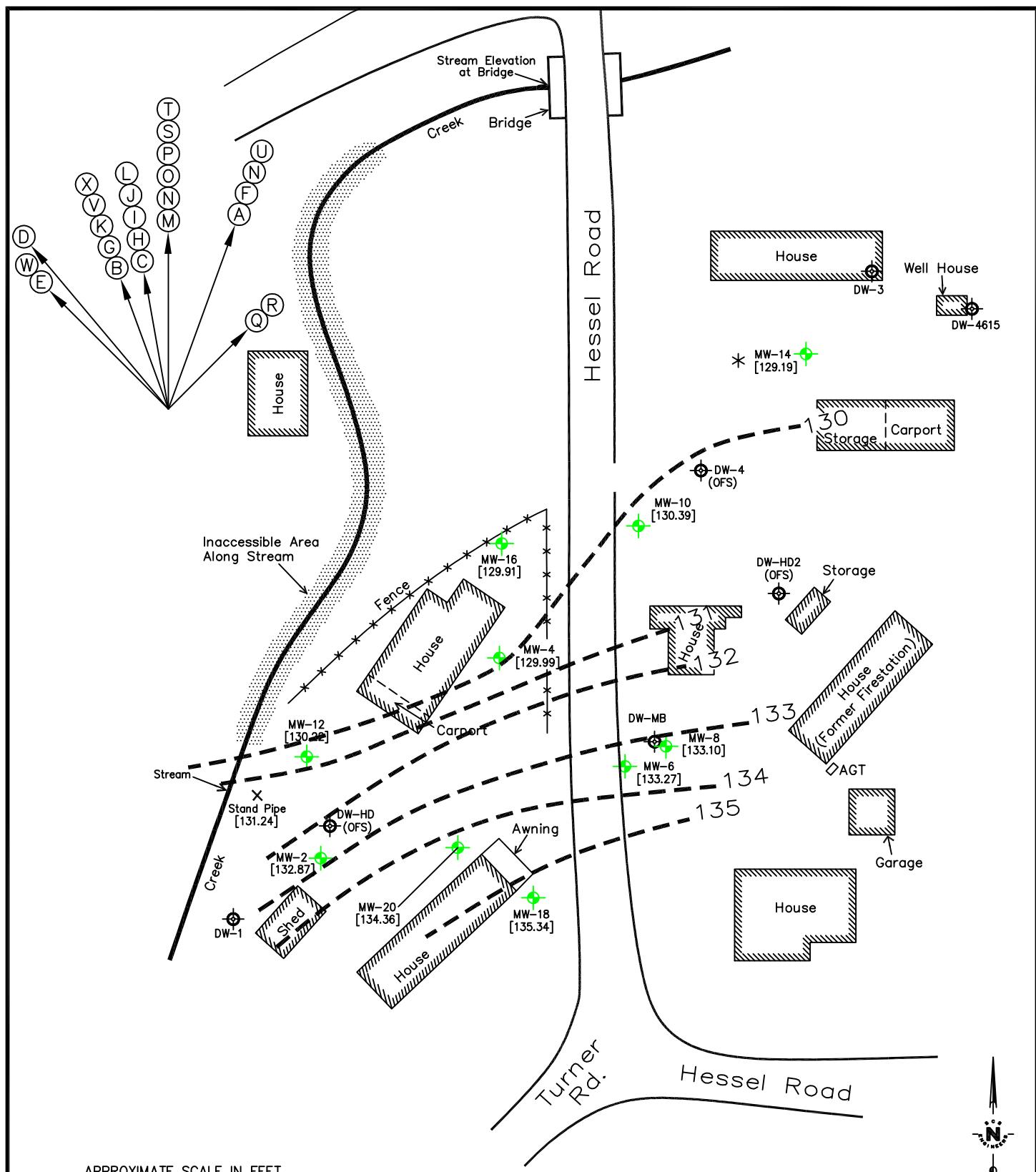
SITE LOCATION MAP

John Riddell
4660 Hessel Road
Sebastopol, California

APPROX. SCALE

FIGURE

1



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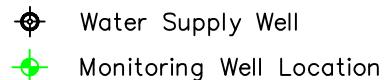
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SHEET TITLE: SITE PLAN
GROUNDWATER FLOW DIRECTION & GRADIENT-SHALLOW WELLS, JUNE 2005
PROJECT TITLE: JOHN RIDDELL
4660 HESSEL ROAD
SEBASTOPOL, CALIFORNIA

SCALE: 1" = 60'
FIGURE NO.: 2A
1 OF 2

GROUNDWATER FLOW LEGEND



DW = Domestic Well

HD = Hand Dug

OFS = Out of Service

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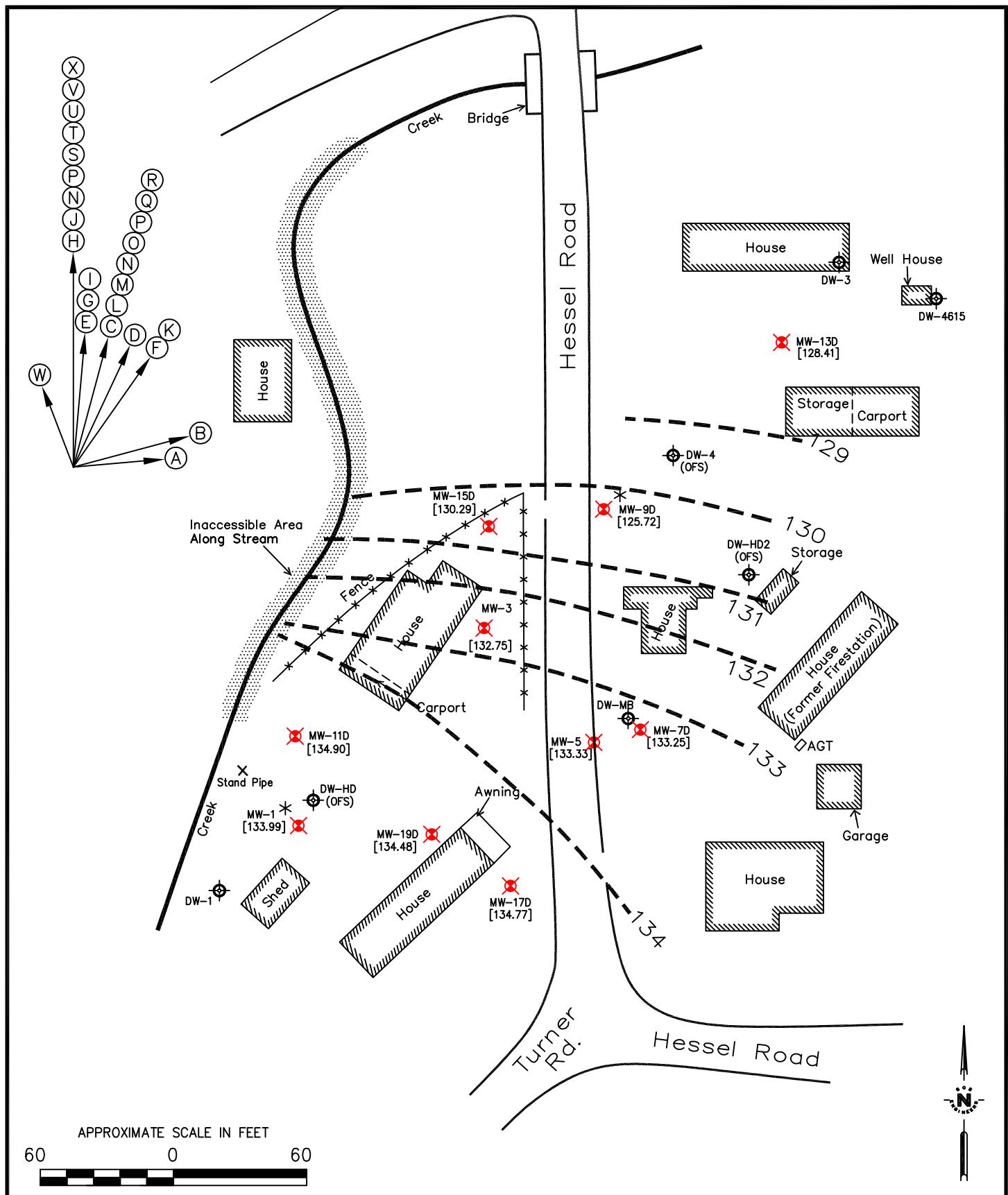
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SHEET TITLE: SITE PLAN
GROUNDWATER FLOW DIRECTION & GRADIENT-SHALLOW WELLS, JUNE 2005

PROJECT TITLE: JOHN RIDDELL
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SCALE:

FIGURE NO.:
2A
2 OF



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| SHEET TITLE: GROUNDWATER FLOW DIRECTION & GRADIENT-DEEP WELLS, JUNE 2005 | SCALE: 1" = 60' |
| PROJECT TITLE: JOHN RIDDELL 4660 HESSEL ROAD SEBASTOPOL, CALIFORNIA | FIGURE NO.: 2B 1 OF 2 |

GROUNDWATER FLOW LEGEND

 Water Supply Well

 Monitoring Well Location

DW = Domestic Well

HD = Hand Dug

OFS = Out of Service

- * MW-1 and MW-9D not used to determine GW Flow Direction & Gradient.

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GROUNDWATER FLOW DIRECTION & GRADIENT-DEEP WELLS, JUNE 2005

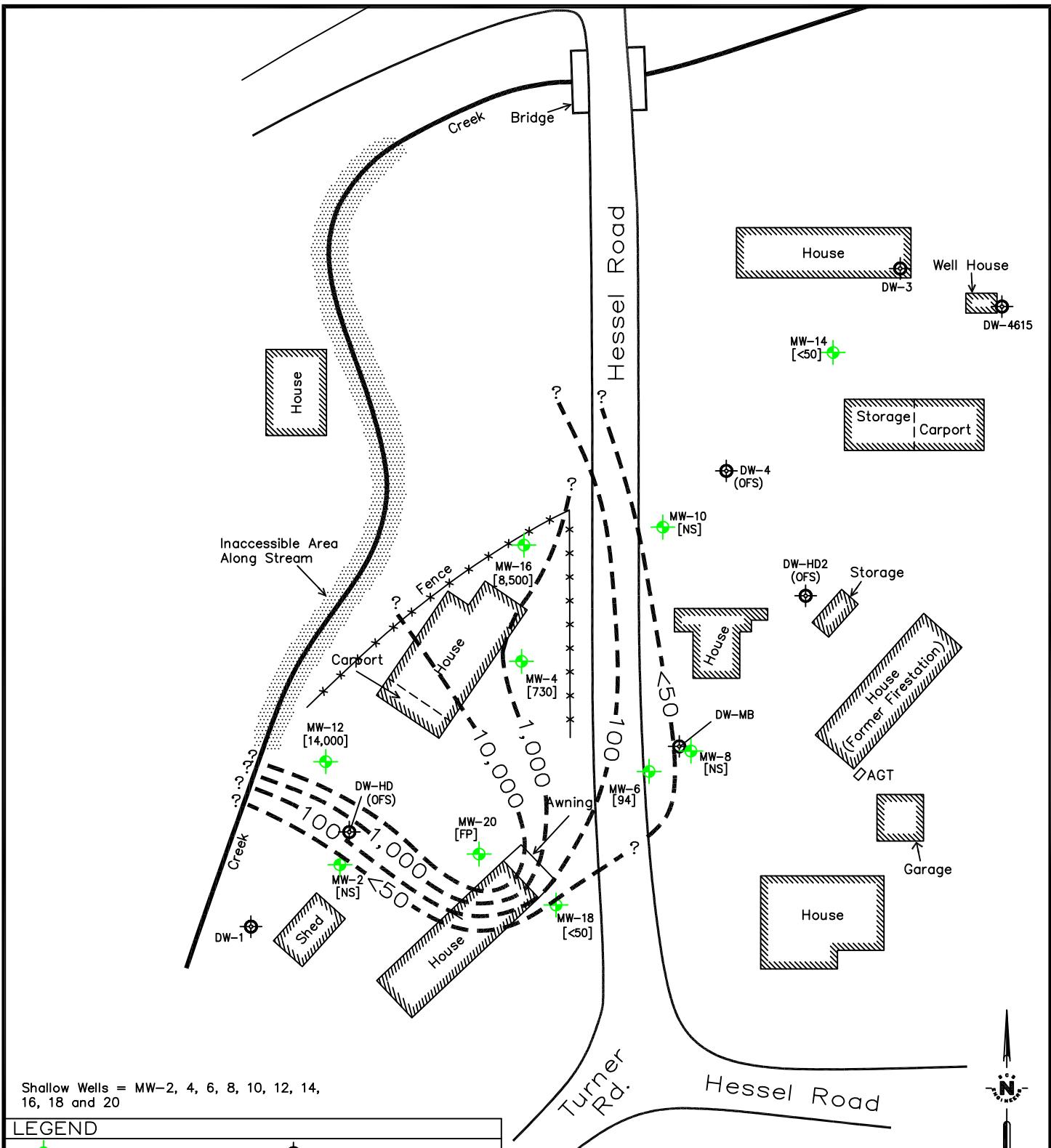
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SCALE:

$$1'' = 60'$$

FIGURE NO.:

2B
2 OF 2



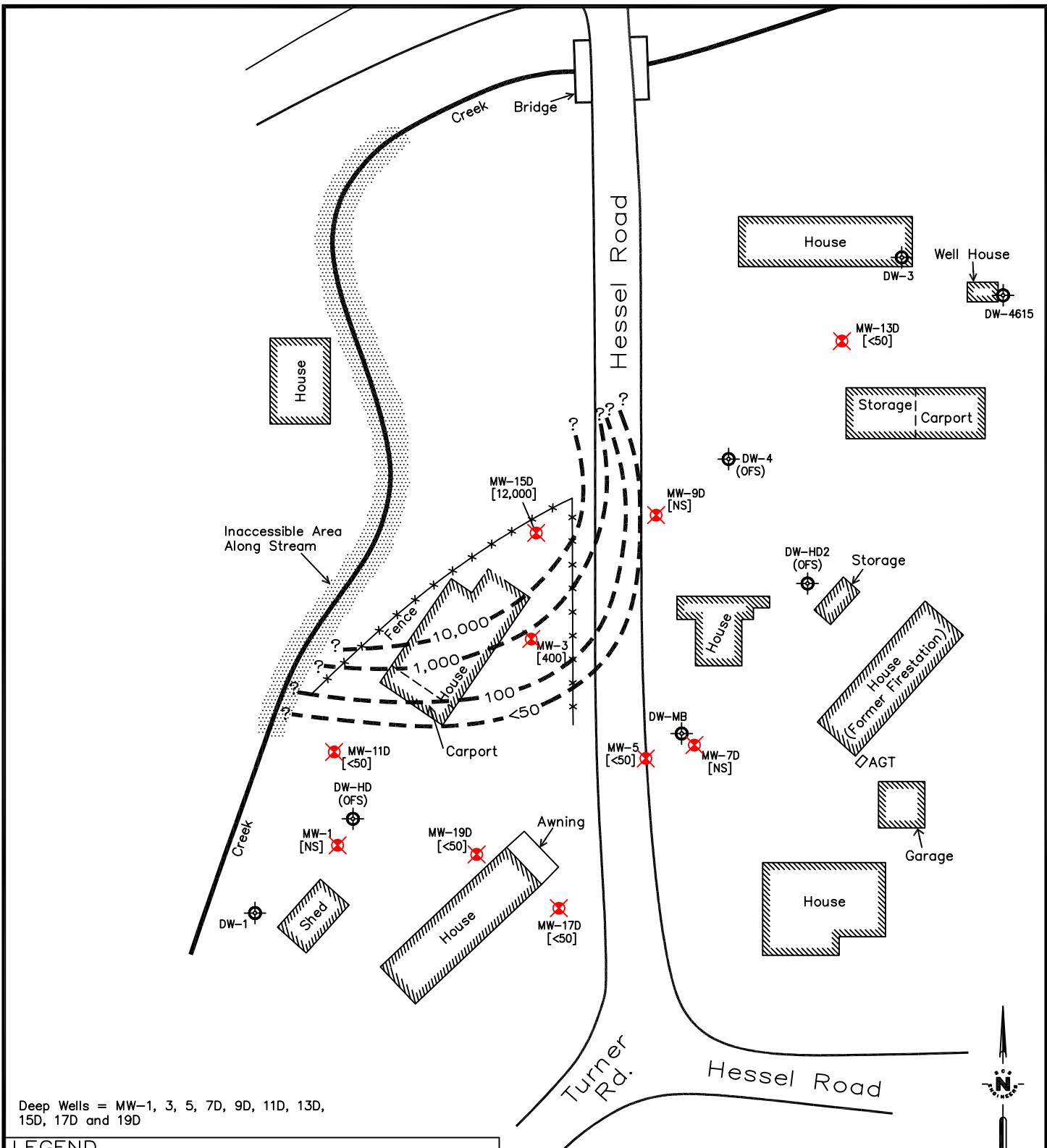
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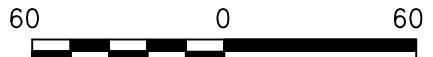
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SHEET TITLE: ISOCONCENTRATION MAP
TPH- IN SHALLOW WELLS FOR JUNE 2005
PROJECT TITLE: JOHN RIDDELL
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SEBASTOPOL, CALIFORNIA

SCALE: 1" = 60'
FIGURE NO.: 3A



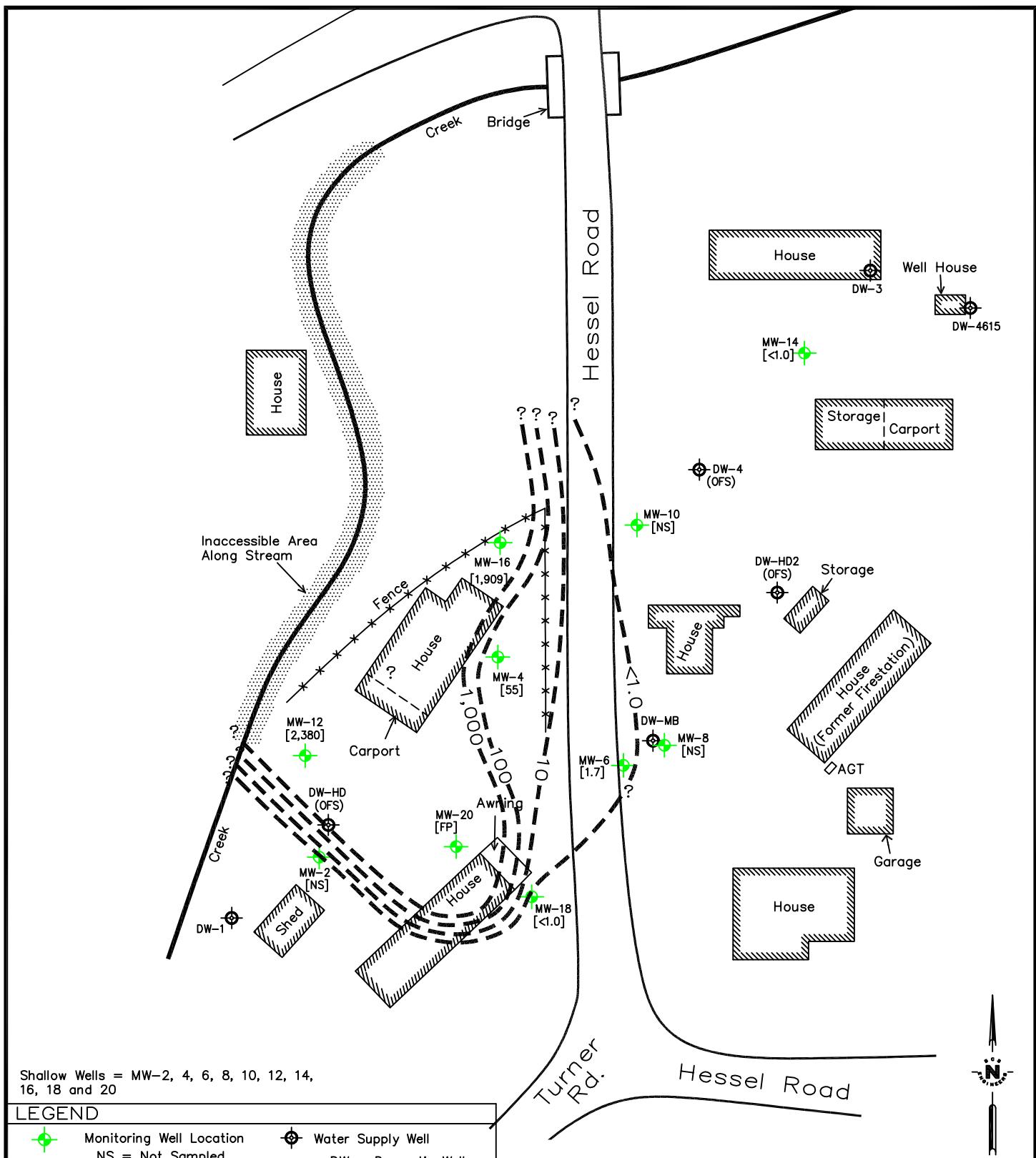
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DATE: 8/20/05 CHK. BY: APP. BY: SK

SHEET TITLE: ISOCONCENTRATION MAP
TPH-g IN DEEP WELLS FOR JUNE 2005
PROJECT TITLE: JOHN RIDDELL
4660 HESSEL ROAD
SEBASTOPOL, CALIFORNIA

SCALE: 1" = 60'
FIGURE NO.: 3B

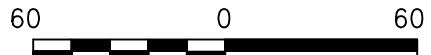


Shallow Wells = MW-2, 4, 6, 8, 10, 12, 14,
16, 18 and 20

LEGEND

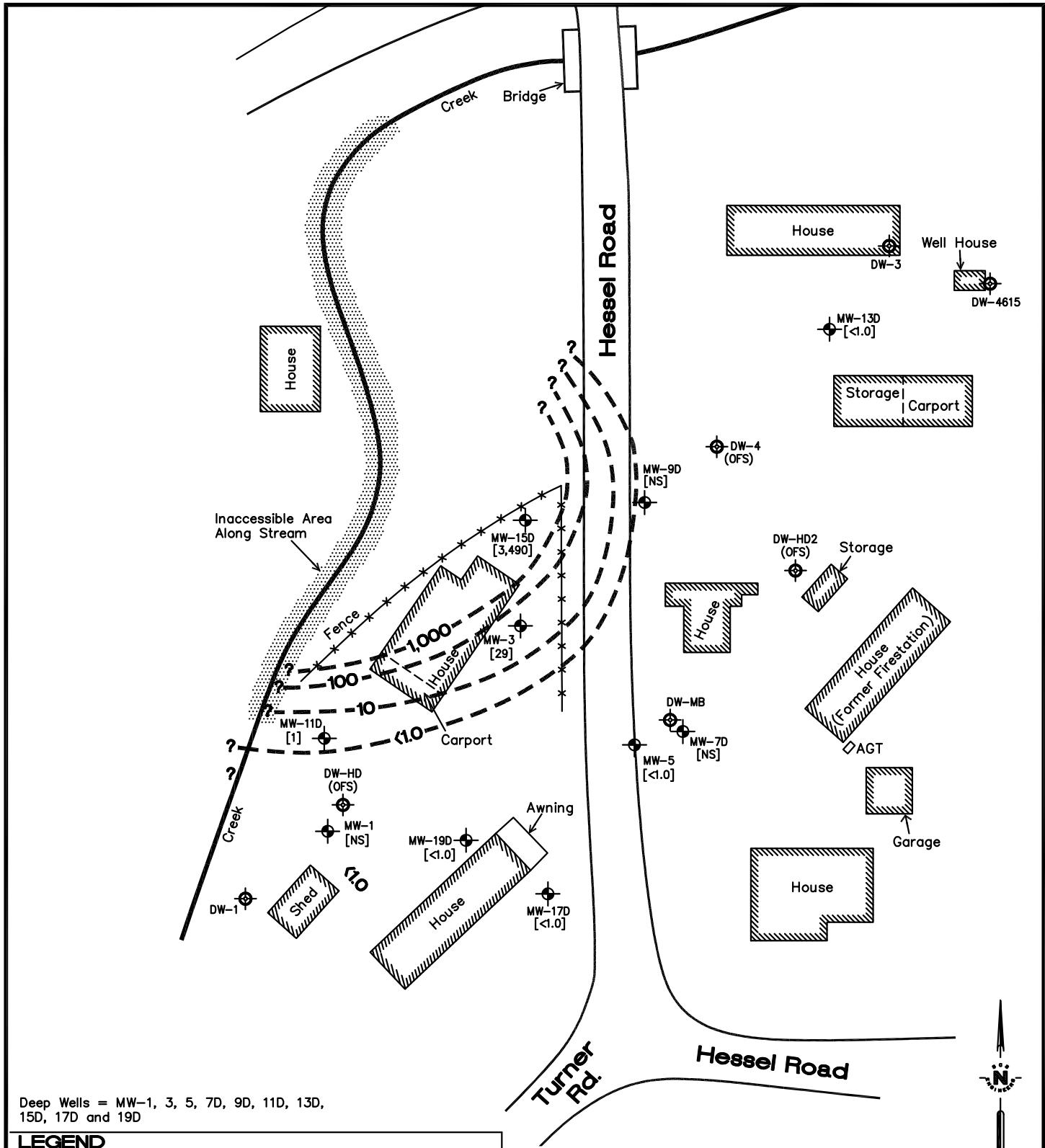
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| | Monitoring Well Location | | Water Supply Well |
| | NS = Not Sampled | | DW = Domestic Well |
| | FP = Free Product | | HD = Hand Dug |
| | Isoconcentration Line | | OFS = Out of Service |
| Σ BTEX, ug/L | | | |

APPROXIMATE SCALE IN FEET



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| DATE: 9/2/05 | CHK. BY: SK | APP. BY: SK | FIGURE NO.: 4A |

| SHEET TITLE: ISOCONCENTRATION MAP | | SCALE: 1" = 60' |
|--|--|-----------------|
| ΣBTEX IN SHALLOW WELLS FOR JUNE 2005 | | |
| PROJECT TITLE: JOHN RIDDELL | | FIGURE NO.: 4A |
| 4660 HESSEL ROAD SEBASTOPOL, CALIFORNIA | | |



Deep Wells = MW-1, 3, 5, 7D, 9D, 11D, 13D, 15D, 17D and 19D

LEGEND

APPROXIMATE SCALE IN FEET

A horizontal scale with numerical labels at -60, 0, and 60. The scale is marked with tick marks every 10 units, starting from -60 and ending at 60. The labels are positioned above the scale line.

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8/23/05 SK

SHEET TITLE:

ISOCONCENTRATION MAP
Σ BTEX IN DEEP WELLS FOR JUNE 2005

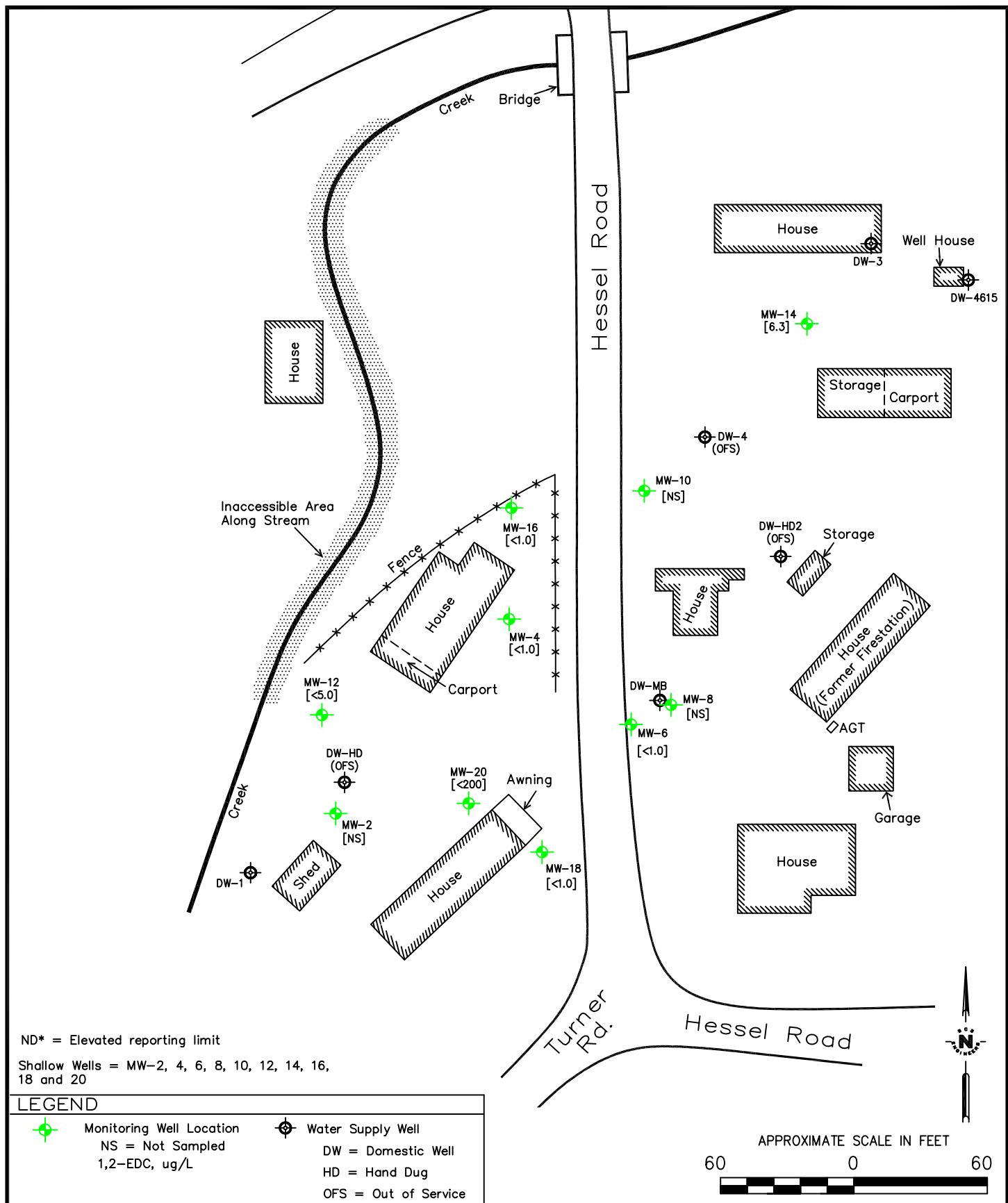
SCALE:

PROJECT TITLE:

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4660 HESSEL ROAD
SEBASTOPOL, CALIFORNIA

FIGURE NO.:

4B



ND* = Elevated reporting limit

Shallow Wells = MW-2, 4, 6, 8, 10, 12, 14, 16,
18 and 20

LEGEND

| | |
|--------------------------|----------------------|
| Monitoring Well Location | Water Supply Well |
| NS = Not Sampled | |
| 1,2-EDC, ug/L | |
| | DW = Domestic Well |
| | HD = Hand Dug |
| | OFS = Out of Service |

APPROXIMATE SCALE IN FEET



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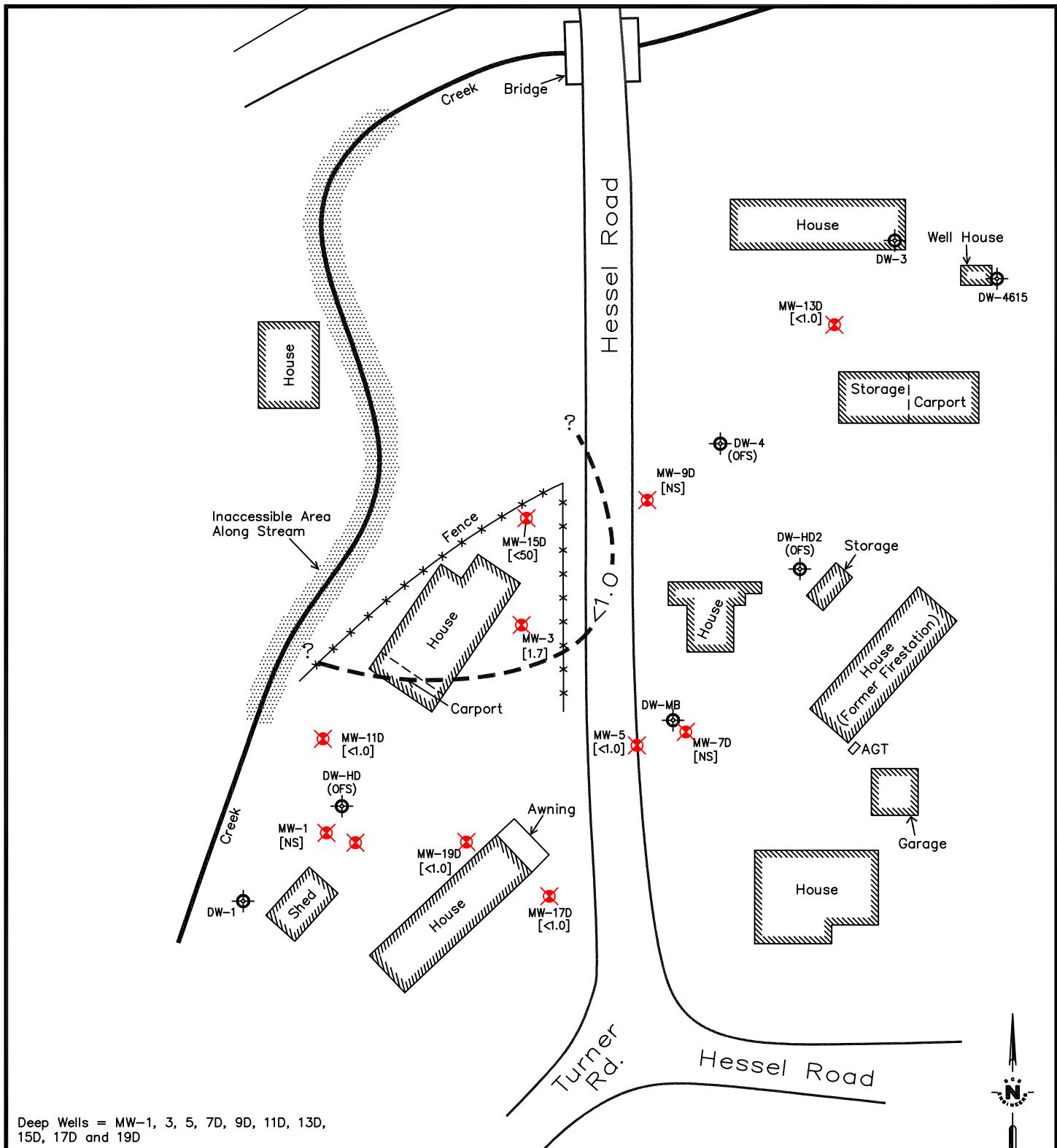
SHEET TITLE:

PROJECT TITLE:

JOHN RIDDELL
4660 HESSEL ROAD
SEBASTOPOL, CALIFORNIA

SCALE:
1" = 60'
FIGURE NO.:

5A

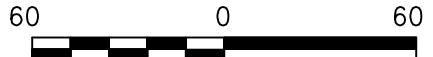


Deep Wells = MW-1, 3, 5, 7D, 9D, 11D, 13D,
15D, 17D and 19D

LEGEND

| | | | |
|--------------|--------------------------|--|----------------------|
| | Monitoring Well Location | | Water Supply Well |
| | NS = Not Sampled | | DW = Domestic Well |
| — — — | Isoconcentration Line | | HD = Hand Dug |
| | 1,2-EDC, ug/L | | OFS = Out of Service |

APPROXIMATE SCALE IN FEET



SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA 95403
PH. (707) 546-9461 FAX. (707) 544-5769

| | | | | | |
|------------|---------|----------|-----|------------|--------------------|
| PROJ. NO.: | 3317.00 | DWN. BY: | AJH | ACAD FILE: | 3317.00-IS05B-3498 |
| DATE: | 8/20/05 | CHK. BY: | | APP. BY: | SK |

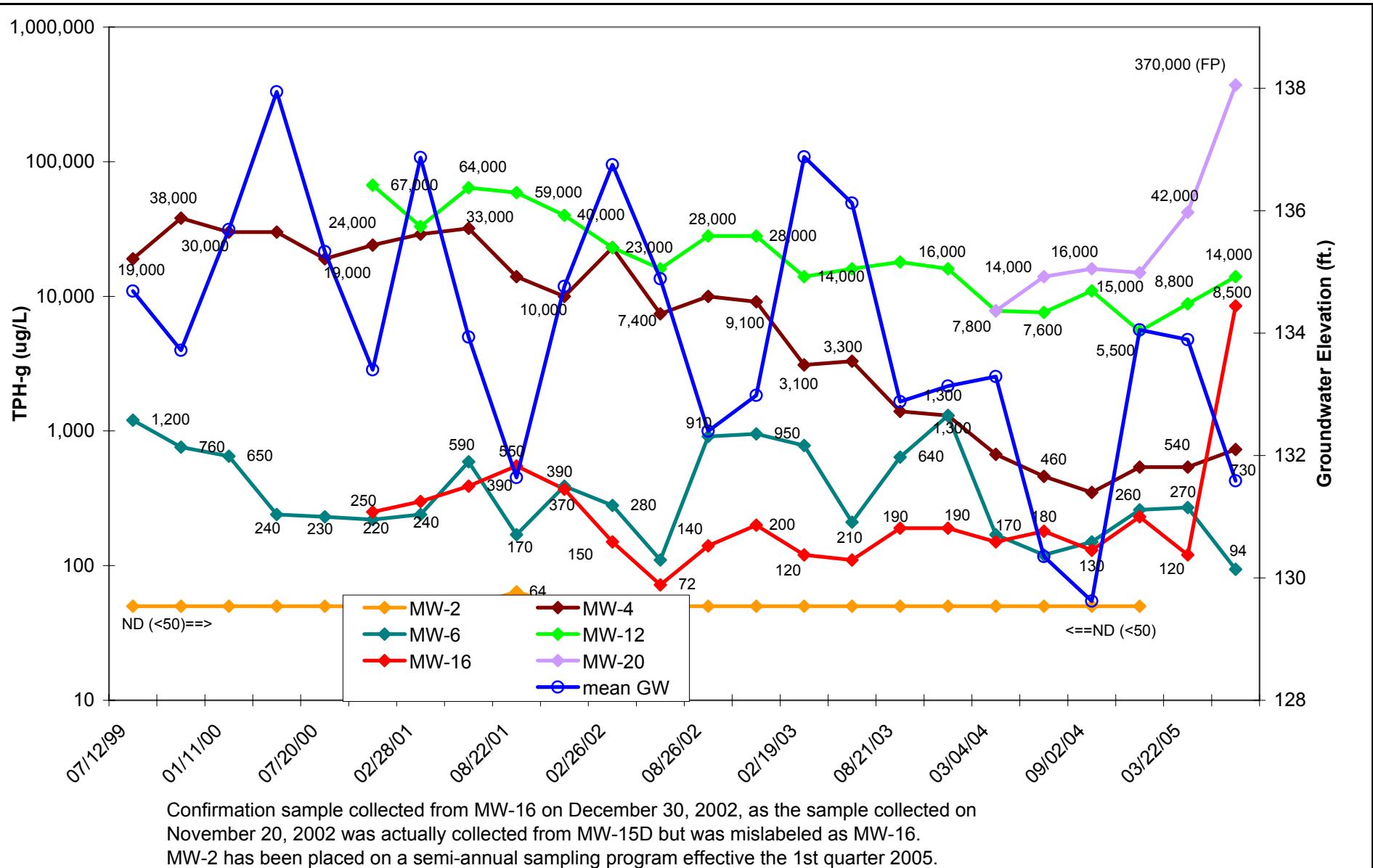
| | |
|--|--------------------|
| SHEET TITLE: ISOCONCENTRATION MAP EDC IN DEEP WELLS FOR JUNE 2005 | SCALE: 1" = 60' |
| PROJECT TITLE: JOHN RIDDELL 4660 HESSEL ROAD SEBASTOPOL, CALIFORNIA | FIGURE NO.: 5B |

Key to Diagrams and Tables
4660 Hessel Road, Sebastopol

| | | |
|-----------|---|---|
| TPH-g | = | Total petroleum hydrocarbons in the gasoline range |
| TPH-d | = | Total petroleum hydrocarbons in the diesel range |
| TPH-mo | = | Total petroleum hydrocarbons in the motor oil range |
| TPH-k | = | Total petroleum hydrocarbons in the kerosene range |
| B | = | Benzene |
| T | = | Toluene |
| E | = | Ethylbenzene |
| X | = | Xylenes |
| MTBE | = | Methyl tertiary butyl ether |
| DIPE | = | Diisopropyl ether |
| ETBE | = | Ethyl tertiary butyl ether |
| TAME | = | Tertiary amyl methyl ether |
| TBA | = | Tert-butyl alcohol |
| Five Oxys | = | MTBE, DIPE, ETBE, TAME, TBA |
| Pb Scavs | = | Lead Scavengers (EDC and EDB) |
| EDC | = | Ethylene Dichloride ² |
| EDB | = | Ethylene Dibromide ³ |
| VOCs | = | Volatile Organic Compounds |
| µg/L | = | Micrograms per liter |
| RDL | = | Report detection limit |
| ND | = | Below the laboratory report detection limit |
| NA | = | Not analyzed |
| msl | = | Mean sea level |
| INF | = | Influent |
| EFF | = | Effluent |

² EDC has been referred to as 1,2-dichloroethane (1,2-DCA) in previous reports

³ EDB has been referred to as 1,2-dibromoethane (1,2-DBA) in previous reports



SCS ENGINEERS

3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA

Drawn By: KLC

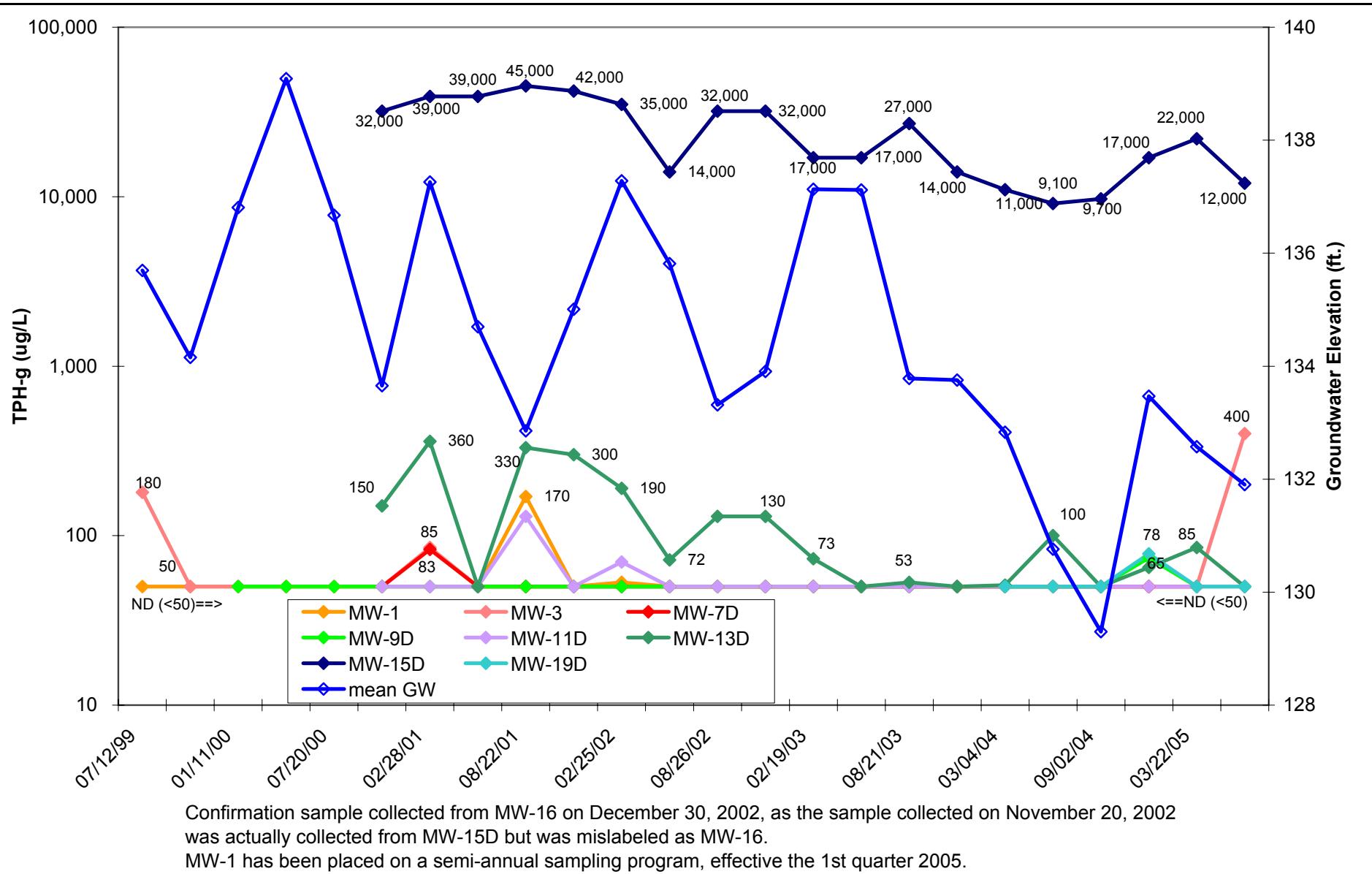
John Riddell
4660 Hessel Road, Sebastopol, California
Job Number: 01203317.00

File Name: TPH-g-GW

DIAGRAM

A

DATE: 08/04/05



SCS ENGINEERS

3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA

Drawn By: KLC

TPH-g & GROUNDWATER ELEVATION vs TIME - Deep Wells

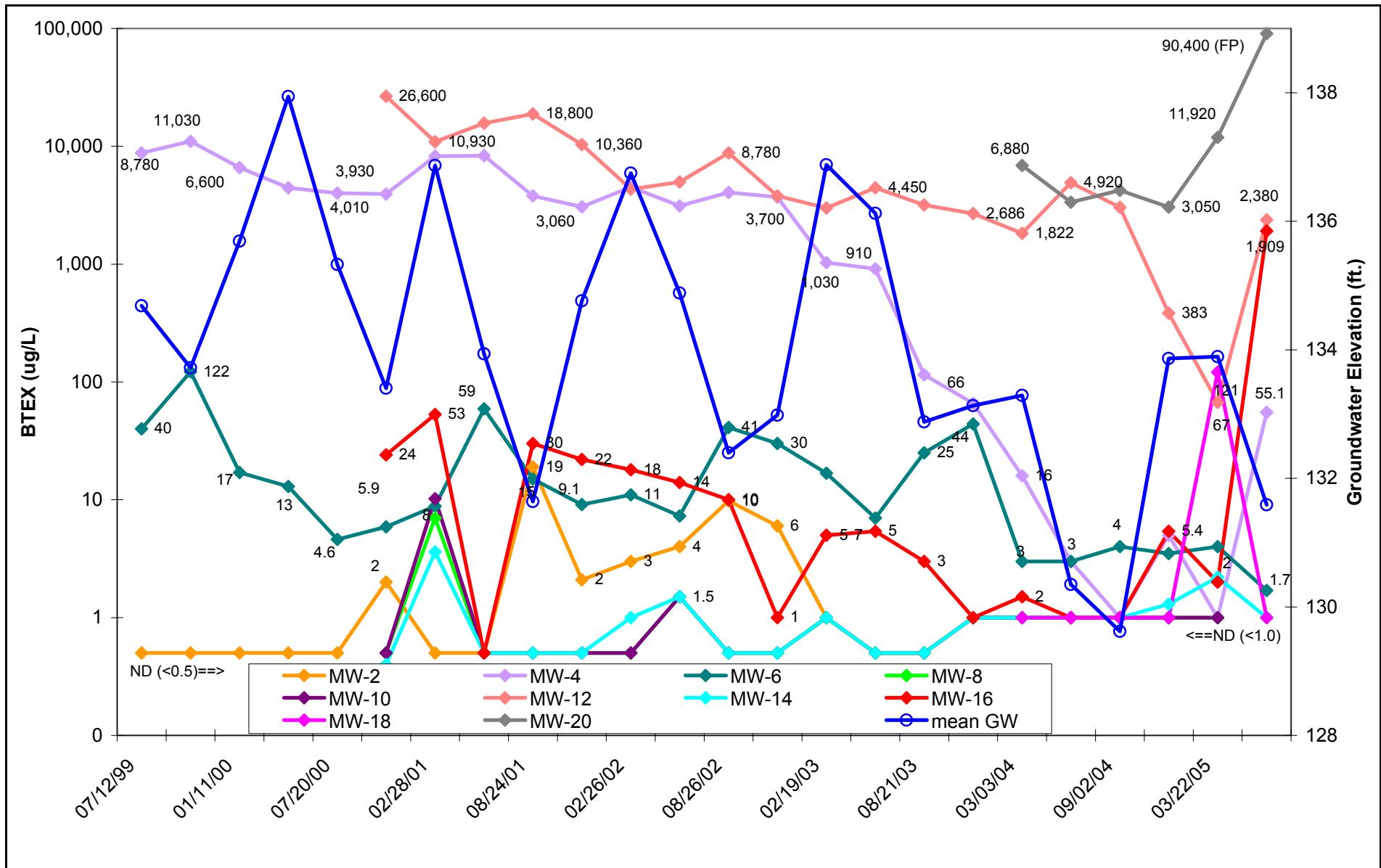
John Riddell
4660 Hessel Road, Sebastopol, California

Job Number: 01203317.00

DIAGRAM

B

DATE: 08/04/05



SCS ENGINEERS

3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA

Drawn By: KLC

File Name: BTEX-GW

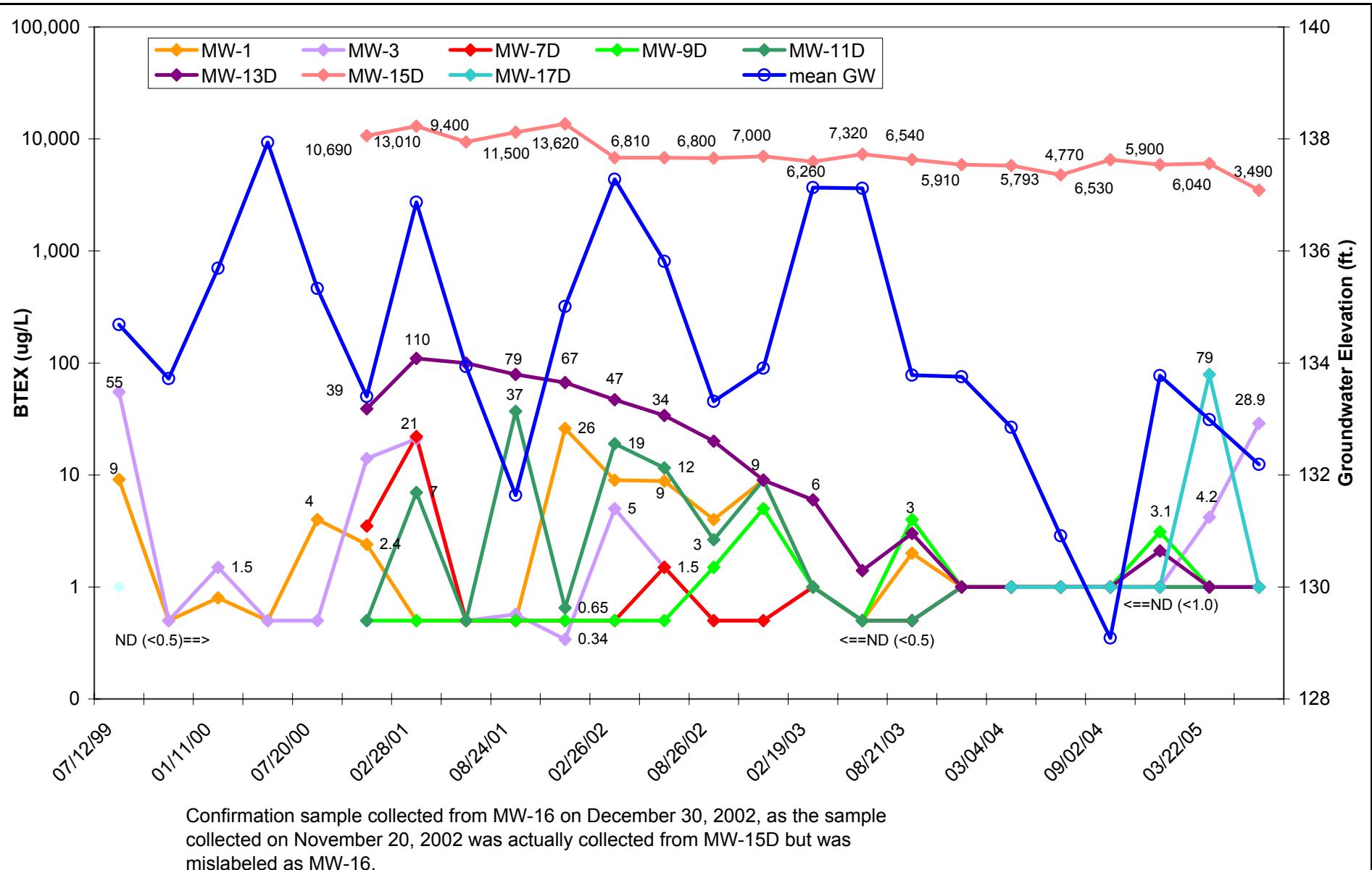
ΣBTEX & GROUNDWATER ELEVATION vs TIME - Shallow Wells

John Riddell
4660 Hessel Road, Sebastopol, California
Job Number: 01203317.00

DIAGRAM

C

DATE: 08/04/05



SCS ENGINEERS

3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA

Drawn By: KLC

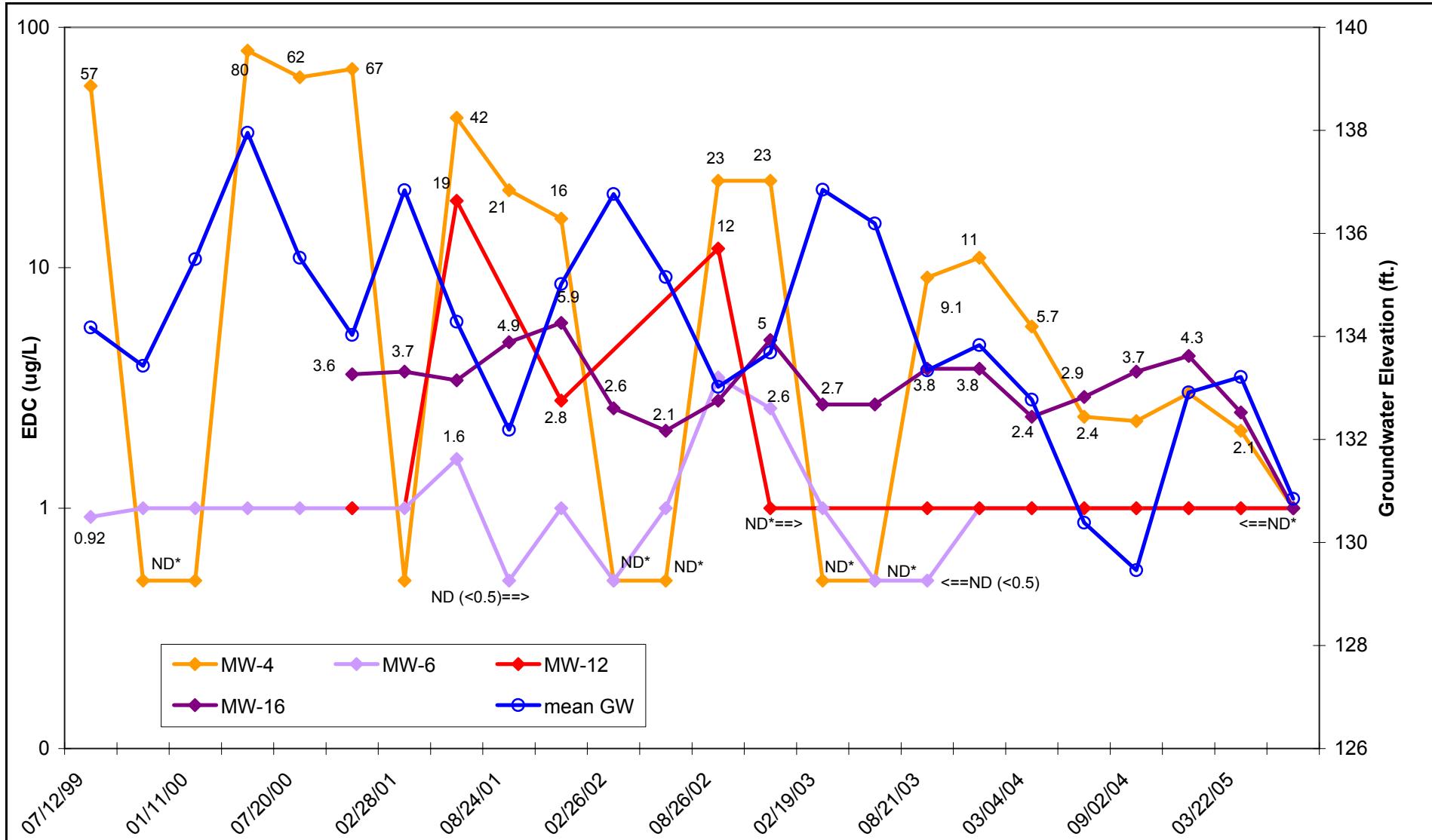
ΣBTEX & GROUNDWATER ELEVATION vs TIME - Deep Wells

John Riddell
4660 Hessel Road, Sebastopol, California
Job Number: 01203317.00

DIAGRAM

D

DATE: 04/13/05



SCS ENGINEERS

3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA

Drawn By: KLC

File Name: EDC-GW

EDC & GROUNDWATER ELEVATION vs TIME - Shallow Wells

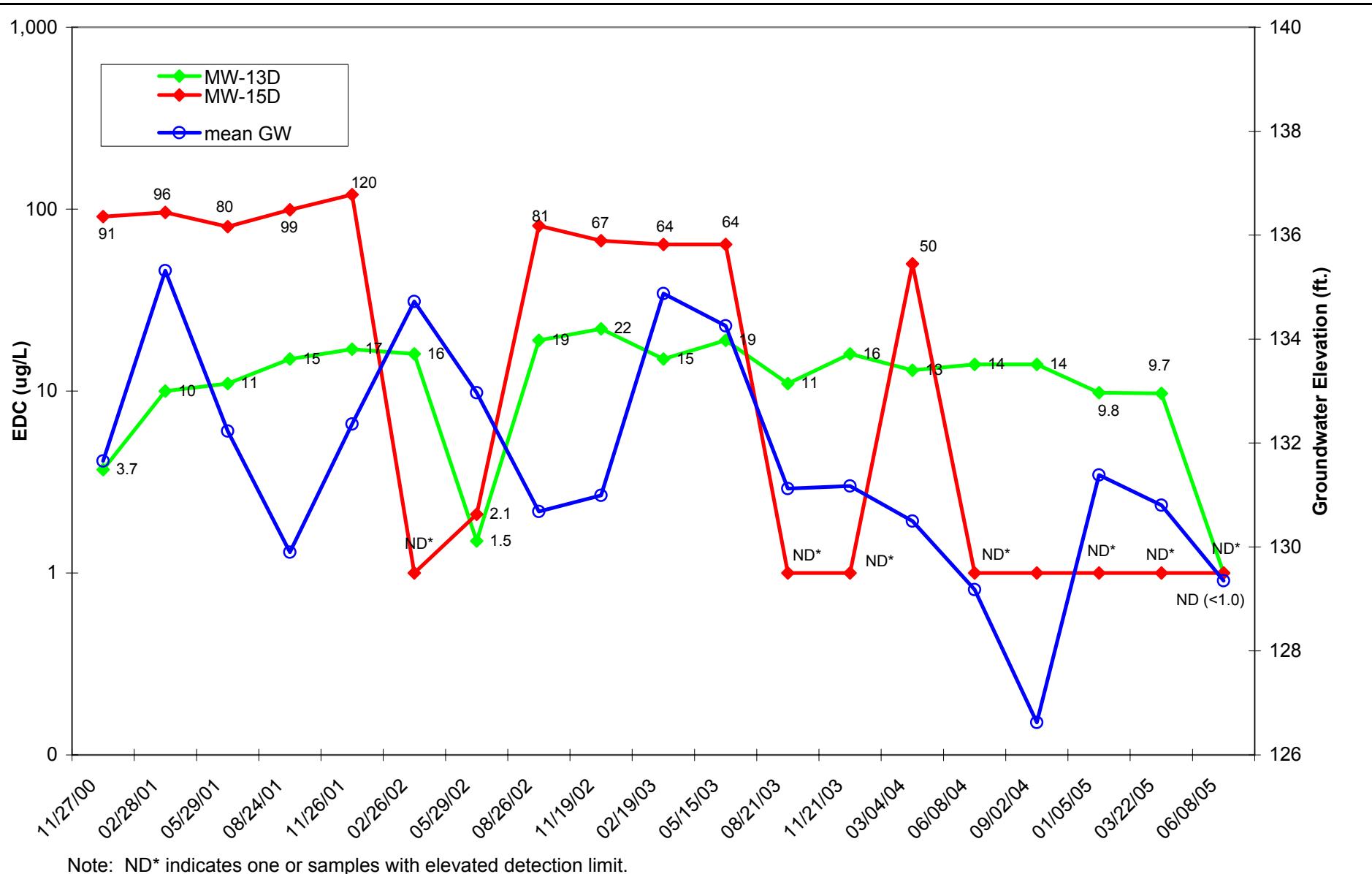
John Riddell
4660 Hessel Road, Sebastopol, California

Job Number: 01203317.00

DIAGRAM

E

DATE: 08/04/05



SCS ENGINEERS

3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA

Drawn By: KLC

File Name: EDC-GW

EDC & GROUNDWATER ELEVATION vs TIME - Deep Wells

John Riddell
4660 Hessel Road, Sebastopol, California
Job Number: 01203317.00

DIAGRAM

F

DATE: 08/04/05

Table 1: Groundwater Flow Direction and Gradient for Shallow Wells
4660 Hessel Road, Sebastopol

| Well # | Date | Top of Casing Elevation (feet > msl) | Depth to Groundwater (feet) | Water Level Elevation (feet > msl) | Groundwater Flow Direction & Gradient (i) |
|--------|----------|--------------------------------------|-----------------------------|------------------------------------|---|
| MW-2 | 07/12/99 | 140.03 | 4.32 | 135.71 | N20°E i = 0.02 |
| MW-4 | | 137.78 | 3.88 | 133.91 | |
| MW-6 | | 140.00 | 5.56 | 134.44 | |
| MW-2 | 10/20/99 | 140.03 | 5.73 | 134.30 | N20°W i = 0.04 |
| MW-4 | | 137.78 | 5.38 | 132.40 | |
| MW-6 | | 140.00 | 5.54 | 134.46 | |
| MW-2 | 01/11/00 | 140.03 | 3.96 | 136.07 | N10°W i = 0.02 |
| MW-4 | | 137.78 | 2.69 | 135.09 | |
| MW-6 | | 140.00 | 4.09 | 135.91 | |
| MW-2 | 04/18/00 | 140.03 | 2.12 | 137.91 | N40°W i = 0.04 |
| MW-4 | | 137.78 | 0.68 | 137.10 | |
| MW-6 | | 140.00 | 1.19 | 138.81 | |
| MW-2 | 07/20/00 | 140.03 | 5.09 | 134.94 | N45°W i = 0.02 |
| MW-4 | | 137.78 | 2.98 | 134.80 | |
| MW-6 | | 140.00 | 3.75 | 136.25 | |
| MW-2 | 11/27/00 | 140.03 | 5.47 | 134.56 | NNE i = 0.025 |
| MW-4 | | 137.78 | 3.58 | 134.20 | |
| MW-6 | | 140.00 | 4.89 | 135.11 | |
| MW-8 | | 140.24 | 5.30 | 134.94 | |
| MW-10 | | 136.89 | 5.53 | 131.36 | |
| MW-12 | | 139.38 | 5.65 | 133.73 | |
| MW-14 | | 135.18 | 4.95 | 130.23 | |
| MW-16 | | 137.38 | 4.30 | 133.08 | |
| MW-2 | 02/28/01 | 140.03 | 2.04 | 137.99 | N20°W i = 0.02 |
| MW-4 | | 137.78 | 0.57 | 137.21 | |
| MW-6 | | 140.00 | 1.16 | 138.84 | |
| MW-8 | | 140.24 | 1.64 | 138.60 | |
| MW-10 | | 136.89 | 0.85 | 136.04 | |
| MW-12 | | 139.39 | 3.75 | 135.64 | |
| MW-14 | | 135.18 | 0.21 | 134.97 | |
| MW-16 | | 137.38 | 1.72 | 135.66 | |
| MW-2 | 05/29/01 | 140.03 | 4.78 | 135.25 | N10°W i = 0.03 |
| MW-4 | | 137.78 | 3.31 | 134.47 | |
| MW-6 | | 140.00 | 4.42 | 135.58 | |
| MW-8 | | 140.24 | 4.82 | 135.42 | |
| MW-10 | | 136.89 | 4.48 | 132.41 | |
| MW-12 | | 139.38 | 5.48 | 133.90 | |
| MW-14 | | 135.18 | 3.92 | 131.26 | |
| MW-16 | | 137.38 | 4.18 | 133.20 | |
| MW-2 | 08/22/01 | 140.03 | 7.0 | 133.03 | N10°W i = 0.02 |
| MW-4 | | 137.78 | 5.50 | 132.28 | |
| MW-6 | | 140.00 | 6.88 | 133.12 | |
| MW-8 | | 140.24 | 7.39 | 132.85 | |
| MW-10 | | 136.89 | 7.30 | 129.59 | |
| MW-12 | | 139.38 | 6.95 | 132.43 | |
| MW-14 | | 135.18 | 6.30 | 128.88 | |
| MW-16 | | 137.38 | 6.46 | 130.92 | |

Table 1: Groundwater Flow Direction and Gradient for Shallow Wells
4660 Hessel Road, Sebastopol

| Well # | Date | Top of Casing Elevation (feet > msl) | Depth to Groundwater (feet) | Water Level Elevation (feet > msl) | Groundwater Flow Direction & Gradient (i) |
|--------|----------|--------------------------------------|-----------------------------|------------------------------------|---|
| MW-2 | 11/26/01 | 140.03 | 3.45 | 136.58 | N10°W i = 0.02 |
| MW-4 | | 137.78 | 2.45 | 135.33 | |
| MW-6 | | 140.00 | 3.70 | 136.30 | |
| MW-8 | | 140.24 | 3.80 | 136.44 | |
| MW-10 | | 136.89 | 3.76 | 133.13 | |
| MW-12 | | 139.38 | 5.22 | 134.16 | |
| MW-14 | | 135.18 | 3.32 | 131.86 | |
| MW-16 | | 137.38 | 3.10 | 134.28 | |
| MW-2 | 02/25/02 | 140.03 | 2.31 | 137.72 | N20°W i = 0.03 |
| MW-4 | | 137.78 | 0.39 | 137.39 | |
| MW-6 | | 140.00 | 1.36 | 138.64 | |
| MW-8 | | 140.24 | 1.85 | 138.39 | |
| MW-10 | | 136.89 | 0.95 | 135.94 | |
| MW-12 | | 139.38 | 3.72 | 135.66 | |
| MW-14 | | 135.18 | 0.30 | 134.88 | |
| MW-16 | | 137.38 | 2.01 | 135.37 | |
| MW-2 | 05/29/02 | 140.03 | 4.12 | 135.91 | Northerly i = 0.02 |
| MW-4 | | 137.78 | 2.0 | 135.78 | |
| MW-6 | | 140.00 | 3.36 | 136.64 | |
| MW-8 | | 140.24 | 3.86 | 136.38 | |
| MW-10 | | 136.89 | 3.23 | 133.66 | |
| MW-12 | | 139.38 | 5.26 | 134.12 | |
| MW-14 | | 135.18 | 2.66 | 132.52 | |
| MW-16 | | 137.38 | 3.31 | 134.07 | |
| MW-2 | 08/26/02 | 140.03 | 6.05 | 133.98 | Northerly i = 0.01 |
| MW-4 | | 137.78 | 4.46 | 133.32 | |
| MW-6 | | 140.00 | 6.51 | 133.49 | |
| MW-8 | | 140.24 | 7.38 | 132.86 | |
| MW-10 | | 136.89 | 6.34 | 130.55 | |
| MW-12 | | 139.38 | 6.0 | 133.38 | |
| MW-14 | | 135.18 | 5.47 | 129.71 | |
| MW-16 | | 137.38 | 5.49 | 131.89 | |
| MW-2 | 11/19/02 | 140.03 | 5.35 | 134.68 | N to NE i = 0.02 |
| MW-4 | | 137.78 | 3.78 | 134.00 | |
| MW-6 | | 140.00 | 5.75 | 134.25 | |
| MW-8 | | 140.24 | 6.48 | 133.76 | |
| MW-10 | | 136.89 | 5.92 | 130.97 | |
| MW-12 | | 139.38 | 5.50 | 133.88 | |
| MW-14 | | 135.18 | 5.46 | 129.72 | |
| MW-16 | | 137.38 | 4.77 | 132.61 | |
| MW-2 | 02/18/03 | 140.03 | 2.03 | 138.00 | Apparent N-NE Gradient not calculated |
| MW-4 | | 137.78 | 0.40 | 137.38 | |
| MW-6 | | 140.00 | 1.31 | 138.69 | |
| MW-8 | | 140.24 | 1.78 | 138.46 | |
| MW-10 | | 136.89 | 0.80 | 136.09 | |
| MW-12 | | 139.38 | 3.65 | 135.73 | |
| MW-14 | | 135.18 | 0.10 | 135.08 | |
| MW-16 | | 137.38 | 1.79 | 135.59 | |

Table 1: Groundwater Flow Direction and Gradient for Shallow Wells
4660 Hessel Road, Sebastopol

| Well # | Date | Top of Casing Elevation (feet > msl) | Depth to Groundwater (feet) | Water Level Elevation (feet > msl) | Groundwater Flow Direction & Gradient (i) | |
|------------|-----------|--------------------------------------|-----------------------------|------------------------------------|---|--|
| MW-2 | 05/14/03 | 140.03 | 2.82 | 137.21 | Northerly i = 0.02 | |
| MW-4 | | 137.78 | 0.98 | 136.80 | | |
| MW-6 | | 140.00 | 2.04 | 137.96 | | |
| MW-8 | | 140.24 | 2.53 | 137.71 | | |
| MW-10 | | 136.89 | 1.74 | 135.15 | | |
| MW-12 | | 139.38 | 4.31 | 135.07 | | |
| MW-14 | | 135.18 | 1.02 | 134.16 | | |
| MW-16 | | 137.38 | 2.45 | 134.93 | | |
| MW-2 | 08/20/03 | 140.03 | 5.41 | 134.62 | Northeasterly i = 0.01 | |
| MW-4 | | 137.78 | 4.05 | 133.73 | | |
| MW-6 | | 140.00 | 5.98 | 134.02 | | |
| MW-8 | | 140.24 | 6.77 | 133.47 | | |
| MW-10 | | 136.89 | 5.77 | 131.12 | | |
| MW-12 | | 139.38 | 5.82 | 133.56 | | |
| MW-14 | | 135.18 | 4.72 | 130.46 | | |
| MW-16 | | 137.38 | 5.33 | 132.05 | | |
| MW-2 | 11/20/03 | 140.03 | 5.33 | 134.70 | Northeasterly i = 0.02 | |
| MW-4 | | 137.78 | 3.47 | 134.31 | | |
| MW-6 | | 140.00 | 5.45 | 134.55 | | |
| MW-8 | | 140.24 | 6.13 | 134.11 | | |
| MW-10 | | 136.89 | 5.90 | 130.99 | | |
| MW-12 | | 139.38 | 5.58 | 133.80 | | |
| MW-14 | | 135.18 | 5.25 | 129.93 | | |
| MW-16 | | 137.38 | 4.71 | 132.67 | | |
| MW-2 | 03/02/04* | 135.97 | 2.56 | 133.41 | Northerly i = 0.03 | |
| MW-4 | | 133.74 | 0.10 | 133.64 | | |
| MW-6 | | 135.97 | 1.60 | 134.37 | | |
| MW-8 | | 136.20 | 1.57 | 134.63 | | |
| MW-10 | | 132.85 | 1.0 | 131.85 | | |
| MW-12 | | 135.32 | 3.79 | 131.53 | | |
| MW-14 | | 131.15 | Artesian conditions | | | |
| MW-16 | | 133.33 | 1.78 | 131.55 | | |
| MW-18 | | 137.95 | 1.0 | 136.95 | | |
| MW-20 | | 136.93 | 1.59 | 135.34 | | |
| Stand Pipe | | 135.11 | 5.20** | 129.91 | | |
| Bridge | | 132.97 | 7.72 | 125.25 | | |

* Previously existing wells were re-surveyed and MW-18 and MW-20 were surveyed to msl on February 26 and March 4, 2004.

** Measurement collected on March 12, 2004.

Table 1: Groundwater Flow Direction and Gradient for Shallow Wells
4660 Hessel Road, Sebastopol

| Well # | Date | Top of Casing Elevation (feet > msl) | Depth to Groundwater (feet) | Water Level Elevation (feet > msl) | Groundwater Flow Direction & Gradient (i) | |
|------------|----------|--------------------------------------|-----------------------------|------------------------------------|---|--|
| MW-2 | 06/07/04 | 135.97 | 4.14 | 131.83 | Northerly i = 0.03 | |
| MW-4 | | 133.74 | 2.88 | 130.86 | | |
| MW-6 | | 135.97 | 4.39 | 131.58 | | |
| MW-8 | | 136.20 | 5.05 | 131.15 | | |
| MW-10 | | 132.85 | 4.34 | 128.51 | | |
| MW-12 | | 135.32 | 5.43 | 129.89 | | |
| MW-14 | | 131.15 | 3.58 | 127.57 | | |
| MW-16 | | 133.33 | 4.12 | 129.21 | | |
| MW-18 | | 137.95 | 4.24 | 133.71 | | |
| MW-20 | | 136.93 | 4.38 | 132.55 | | |
| Stand Pipe | | 135.11 | 6.14 | 128.97 | | |
| Bridge | | 132.97 | 7.84 | 125.13 | | |
| MW-2 | 09/02/04 | 135.97 | 2.87 | 133.10 | N-NE i = 0.03 | |
| MW-4 | | 133.74 | 3.97 | 129.77 | | |
| MW-6 | | 135.97 | 5.61 | 130.36 | | |
| MW-8 | | 136.20 | 6.32 | 129.88 | | |
| MW-10 | | 132.85 | 5.99 | 126.86 | | |
| MW-12 | | 135.32 | 5.35 | 129.97 | | |
| MW-14 | | 131.15 | 4.86 | 126.29 | | |
| MW-16 | | 133.33 | 5.58 | 127.75 | | |
| MW-18 | | 137.95 | 4.47 | 133.48 | | |
| MW-20 | | 136.93 | 4.33 | 132.60 | | |
| Stand Pipe | | 135.11 | 6.62 | 128.49 | | |
| Bridge | | 132.97 | 7.88 | 125.09 | | |
| MW-2 | 01/04/05 | 135.97 | 1.33 | 134.64 | N-NW i = 0.05 | |
| MW-4 | | 133.74 | Artesian conditions | | | |
| MW-6 | | 135.97 | 0.56 | 135.41 | | |
| MW-8 | | 136.20 | 1.15 | 135.05 | | |
| MW-10 | | 132.85 | 0.39 | 132.46 | | |
| MW-12 | | 135.32 | 4.11 | 131.21 | | |
| MW-14 | | 131.15 | Artesian conditions | | | |
| MW-16 | | 133.33 | 1.21 | 132.12 | | |
| MW-18 | | 137.95 | 0.47 | 137.48 | | |
| MW-20 | | 136.93 | 0.76 | 136.17 | | |
| Stand Pipe | | 135.11 | NM | | | |
| Bridge | | 132.97 | NM | | | |
| MW-2 | 03/22/05 | 135.97 | 0.59 | 135.38 | NW i = 0.04 | |
| MW-4 | | 133.74 | 0.03 | 133.71 | | |
| MW-6 | | 135.97 | 0.86 | 135.11 | | |
| MW-8 | | 136.20 | 0.94 | 135.26 | | |
| MW-10 | | 132.85 | 0.39 | 132.46 | | |
| MW-12 | | 135.32 | 3.33 | 131.99 | | |
| MW-14 | | 131.15 | Artesian conditions | | | |
| MW-16 | | 133.33 | 1.29 | 132.04 | | |
| MW-18 | | 137.95 | Artesian conditions | | | |
| MW-20 | | 136.93 | 0.85 | 136.08 | | |
| Stand Pipe | | 135.11 | 3.87 | 131.24 | | |
| Bridge | | 132.97 | NM | | | |

Table 1: Groundwater Flow Direction and Gradient for Shallow Wells
4660 Hessel Road, Sebastopol

| Well # | Date | Top of Casing Elevation (feet > msl) | Depth to Groundwater (feet) | Water Level Elevation (feet > msl) | Groundwater Flow Direction & Gradient (i) |
|------------|----------|--------------------------------------|-----------------------------|------------------------------------|---|
| MW-2 | 06/08/05 | 135.97 | 3.10 | 132.87 | NNW i = 0.04 |
| MW-4 | | 133.74 | 3.75 | 129.99 | |
| MW-6 | | 135.97 | 2.70 | 133.27 | |
| MW-8 | | 136.20 | 3.10 | 133.10 | |
| MW-10 | | 132.85 | 2.46 | 130.39 | |
| MW-12 | | 135.32 | 5.10 | 130.22 | |
| MW-14 | | 131.15 | 1.96 | 129.19 | |
| MW-16 | | 133.33 | 3.42 | 129.91 | |
| MW-18 | | 137.95 | 2.61 | 135.34 | |
| MW-20 | | 136.93 | 2.57 | 134.36 | |
| Stand Pipe | | 135.11 | 5.81 | 131.24 | |
| Bridge | | 132.97 | | NM | |

Table 2: Groundwater Flow Direction and Gradient for Deep Wells
4660 Hessel Road, Sebastopol

| Well # | Date | Top of Casing Elevation (feet > msl) | Depth to Groundwater (feet) | Water Level Elevation (feet > msl) | Groundwater Flow Direction & Gradient (i) | |
|--------|----------|--------------------------------------|---------------------------------|------------------------------------|---|--|
| MW-1 | 07/12/99 | 139.76 | 2.26 | 137.50 | N85°E i = 0.02 | |
| MW-3 | | 137.79 | 2.41 | 135.38 | | |
| MW-5 | | 139.40 | 5.20 | 134.20 | | |
| MW-1 | 10/20/99 | 139.76 | 3.13 | 136.63 | N75°E i = 0.03 | |
| MW-3 | | 137.79 | 4.26 | 133.53 | | |
| MW-5 | | 139.40 | 7.10 | 132.30 | | |
| MW-1 | 01/11/00 | 139.76 | 2.0 | 137.76 | N15°E i = 0.02 | |
| MW-3 | | 137.79 | 1.97 | 135.82 | | |
| MW-5 | | 139.40 | 2.56 | 136.84 | | |
| MW-1 | 04/18/00 | 139.76 | 0.41 | 139.35 | Not calculated | |
| MW-3 | | 137.79 | Artesian conditions encountered | | | |
| MW-5 | | 139.40 | 0.57 | 138.83 | | |
| MW-1 | 07/20/00 | 139.76 | 2.59 | 137.17 | N5°E i = 0.01 | |
| MW-3 | | 137.79 | 1.63 | 136.16 | | |
| MW-5 | | 139.40 | 2.72 | 136.68 | | |
| MW-1 | 11/27/00 | 139.75 | 3.49 | 136.26 | N35°E i = 0.025 | |
| MW-3 | | 137.79 | 2.29 | 135.50 | | |
| MW-5 | | 139.40 | 3.62 | 135.78 | | |
| MW-7D | | 140.14 | 4.32 | 135.82 | | |
| MW-9D | | 136.92 | 7.13 | 129.29 | | |
| MW-11D | | 139.41 | 2.74 | 136.67 | | |
| MW-13D | | 135.30 | 6.84 | 128.46 | | |
| MW-15D | | 137.22 | 5.78 | 131.44 | | |
| MW-1 | | 139.75 | 0.56 | 139.19 | | |
| MW-3 | 02/28/01 | 137.79 | Artesian conditions | | N5°E i = 0.02 | |
| MW-5 | | 139.40 | 0.17 | 139.23 | | |
| MW-7D | | 140.14 | 0.79 | 139.35 | | |
| MW-9D | | 136.92 | 2.91 | 134.01 | | |
| MW-11D | | 139.41 | 0.04 | 139.37 | | |
| MW-13D | | 135.30 | 0.59 | 134.71 | | |
| MW-15D | | 137.22 | 2.26 | 134.96 | | |
| MW-1 | | 139.75 | 2.65 | 137.10 | | |
| MW-3 | 05/29/01 | 137.79 | 1.70 | 136.09 | North i = 0.05 | |
| MW-5 | | 139.40 | 2.86 | 136.54 | | |
| MW-7D | | 140.14 | 3.53 | 136.61 | | |
| MW-9D | | 136.92 | 4.80 | 132.12 | | |
| MW-11D | | 139.41 | 1.96 | 137.45 | | |
| MW-13D | | 135.30 | 5.87 | 129.43 | | |
| MW-15D | | 137.22 | 4.99 | 132.23 | | |

Table 2: Groundwater Flow Direction and Gradient for Deep Wells
4660 Hessel Road, Sebastopol

| Well # | Date | Top of Casing Elevation (feet > msl) | Depth to Groundwater (feet) | Water Level Elevation (feet > msl) | Groundwater Flow Direction & Gradient (i) | |
|--------|----------|--------------------------------------|-----------------------------|------------------------------------|---|--|
| MW-1 | 08/22/01 | 139.75 | 4.75 | 135.00 | N5°E i = 0.04 | |
| MW-3 | | 137.79 | 3.82 | 133.97 | | |
| MW-5 | | 139.40 | 5.07 | 134.33 | | |
| MW-7D | | 140.14 | 5.73 | 134.41 | | |
| MW-9D | | 136.92 | 6.78 | 130.14 | | |
| MW-11D | | 139.41 | 4.08 | 135.33 | | |
| MW-13D | | 135.30 | 5.99 | 129.31 | | |
| MW-15D | | 137.22 | 6.88 | 130.34 | | |
| MW-1 | 11/26/01 | 139.75 | 2.80 | 136.95 | North i = 0.03 | |
| MW-3 | | 137.79 | 1.92 | 135.87 | | |
| MW-5 | | 139.40 | 3.40 | 136.00 | | |
| MW-7D | | 140.14 | 4.10 | 136.04 | | |
| MW-9D | | 136.92 | 3.71 | 133.21 | | |
| MW-11D | | 139.41 | 2.13 | 137.28 | | |
| MW-13D | | 135.30 | 3.49 | 131.81 | | |
| MW-15D | | 137.22 | 4.30 | 132.92 | | |
| MW-1 | 02/25/02 | 139.75 | 0.68 | 139.07 | N35°E i = 0.03 | |
| MW-3 | | 137.79 | Artesian conditions | | | |
| MW-5 | | 139.40 | 0.60 | 138.80 | | |
| MW-7D | | 140.14 | 1.16 | 138.98 | | |
| MW-9D | | 136.92 | 1.55 | 135.37 | | |
| MW-11D | | 139.41 | 0.12 | 139.29 | | |
| MW-13D | | 135.30 | 0.57 | 134.73 | | |
| MW-15D | | 137.22 | 2.50 | 134.72 | | |
| MW-1 | 05/29/02 | 139.75 | 1.91 | 137.84 | N to NE i = 0.02 | |
| MW-3 | | 137.79 | 1.20 | 136.59 | | |
| MW-5 | | 139.40 | 2.36 | 137.04 | | |
| MW-7D | | 140.14 | 3.0 | 137.14 | | |
| MW-9D | | 136.92 | 3.14 | 133.78 | | |
| MW-11D | | 139.41 | 1.23 | 138.18 | | |
| MW-13D | | 135.30 | 2.65 | 132.65 | | |
| MW-15D | | 137.22 | 3.93 | 133.29 | | |
| MW-1 | 08/26/02 | 139.75 | 4.25 | 135.50 | N to NE i = 0.02 | |
| MW-3 | | 137.79 | 3.45 | 134.34 | | |
| MW-5 | | 139.40 | 4.96 | 134.44 | | |
| MW-7D | | 140.14 | 5.59 | 134.55 | | |
| MW-9D | | 136.92 | 6.41 | 130.51 | | |
| MW-11D | | 139.41 | 3.60 | 135.81 | | |
| MW-13D | | 135.30 | 5.10 | 130.20 | | |
| MW-15D | | 137.22 | 6.05 | 131.17 | | |
| MW-1 | 11/19/02 | 139.75 | 4.08 | 135.67 | N to NE i = 0.02 | |
| MW-3 | | 137.79 | 2.93 | 134.86 | | |
| MW-5 | | 139.40 | 4.36 | 135.04 | | |
| MW-7D | | 140.14 | 4.99 | 135.15 | | |
| MW-9D | | 136.92 | 4.81 | 132.11 | | |
| MW-11D | | 139.41 | 2.97 | 136.44 | | |
| MW-13D | | 135.30 | 4.96 | 130.34 | | |
| MW-15D | | 137.22 | 5.57 | 131.65 | | |

Table 2: Groundwater Flow Direction and Gradient for Deep Wells
4660 Hessel Road, Sebastopol

| Well # | Date | Top of Casing Elevation (feet > msl) | Depth to Groundwater (feet) | Water Level Elevation (feet > msl) | Groundwater Flow Direction & Gradient (i) |
|--------|-----------|--------------------------------------|-----------------------------|------------------------------------|---|
| MW-1 | 02/18/03 | 139.75 | 1.03 | 138.72 | Apparent N-NE Gradient not calculated |
| MW-3 | | 137.79 | | Artesian conditions encountered | |
| MW-5 | | 139.40 | 0.07 | 139.33 | |
| MW-7D | | 140.14 | 1.24 | 138.90 | |
| MW-9D | | 136.92 | 2.92 | 134.00 | |
| MW-11D | | 139.41 | 0.20 | 139.21 | |
| MW-13D | | 135.30 | 0.50 | 134.80 | |
| MW-15D | | 137.22 | 2.27 | 134.95 | |
| MW-1 | 05/14/03 | 139.75 | 1.19 | 138.56 | N-NE i = 0.02 |
| MW-3 | | 137.79 | 0.15 | 137.64 | |
| MW-5 | | 139.40 | 1.08 | 138.32 | |
| MW-7D | | 140.14 | 1.66 | 138.48 | |
| MW-9D | | 136.92 | 0.50 | 136.42 | |
| MW-11D | | 139.41 | 0.38 | 139.03 | |
| MW-13D | | 135.30 | 1.15 | 134.15 | |
| MW-15D | | 137.22 | 2.86 | 134.36 | |
| MW-1 | 08/20/03 | 139.75 | 3.90 | 135.85 | N-NE i = 0.02 |
| MW-3 | | 137.79 | 2.99 | 134.80 | |
| MW-5 | | 139.40 | 4.42 | 134.98 | |
| MW-7D | | 140.14 | 5.03 | 135.11 | |
| MW-9D | | 136.92 | 5.93 | 130.99 | |
| MW-11D | | 139.41 | 3.14 | 136.27 | |
| MW-13D | | 135.30 | 4.60 | 130.70 | |
| MW-15D | | 137.22 | 5.67 | 131.55 | |
| MW-1 | 11/20/03 | 139.75 | 3.93 | 135.82 | N-NE i = 0.02 |
| MW-3 | | 137.79 | 2.77 | 135.02 | |
| MW-5 | | 139.40 | 4.15 | 135.25 | |
| MW-7D | | 140.14 | 4.78 | 135.36 | |
| MW-9D | | 136.92 | 6.98 | 129.94 | |
| MW-11D | | 139.41 | 3.13 | 136.28 | |
| MW-13D | | 135.30 | 4.81 | 130.49 | |
| MW-15D | | 137.22 | 5.36 | 131.86 | |
| MW-1 | 3/2/2004* | 135.69 | 1.00 | 134.69 | Northerly i = 0.04 |
| MW-3 | | 133.75 | 1.65 | 132.10 | |
| MW-5 | | 135.36 | 0.30 | 135.06 | |
| MW-7D | | 136.08 | 1.40 | 134.68 | |
| MW-9D | | 132.88 | 4.40 | 128.48 | |
| MW-11D | | 135.35 | 1.05 | 134.30 | |
| MW-13D | | 131.28 | | Artesian conditions | |
| MW-15D | | 133.19 | 2.69 | 130.50 | |
| MW-17D | | 137.84 | 1.60 | 136.24 | |
| MW-19D | | 137.05 | 1.10 | 135.95 | |

* Previously existing wells were re-surveyed and new wells were surveyed to msl on February 26 and March 4, 2004

Table 2: Groundwater Flow Direction and Gradient for Deep Wells
4660 Hessel Road, Sebastopol

| Well # | Date | Top of Casing Elevation (feet > msl) | Depth to Groundwater (feet) | Water Level Elevation (feet > msl) | Groundwater Flow Direction & Gradient (i) | |
|--------|----------|--------------------------------------|-----------------------------|------------------------------------|---|--|
| MW-1 | 06/07/04 | 135.69 | 2.79 | 132.90 | N-NE i = 0.04 | |
| MW-3 | | 133.75 | 2.01 | 131.74 | | |
| MW-5 | | 135.36 | 3.24 | 132.12 | | |
| MW-7D | | 136.08 | 3.85 | 132.23 | | |
| MW-9D | | 132.88 | 7.67 | 125.21 | | |
| MW-11D | | 135.35 | 2.18 | 133.17 | | |
| MW-13D | | 131.28 | 3.42 | 127.86 | | |
| MW-15D | | 133.19 | 4.55 | 128.64 | | |
| MW-17D | | 137.84 | 4.26 | 133.58 | | |
| MW-19D | | 137.05 | 3.73 | 133.32 | | |
| MW-1 | 09/02/04 | 135.69 | 4.24 | 131.45 | Northerly i = 0.03 | |
| MW-3 | | 133.75 | 2.98 | 130.77 | | |
| MW-5 | | 135.36 | 4.20 | 131.16 | | |
| MW-7D | | 136.08 | 4.78 | 131.30 | | |
| MW-9D | | 132.88 | 11.58 | 121.30 | | |
| MW-11D | | 135.35 | 3.49 | 131.86 | | |
| MW-13D | | 131.28 | 5.21 | 126.07 | | |
| MW-15D | | 133.19 | 6.01 | 127.18 | | |
| MW-17D | | 137.84 | 4.16 | 133.68 | | |
| MW-19D | | 137.05 | 4.07 | 132.98 | | |
| MW-1 | 01/04/05 | 135.69 | 0.76 | 134.93 | Northerly i = 0.03 | |
| MW-3 | | 133.75 | Artesian conditions | | | |
| MW-5 | | 135.36 | 0.11 | 135.25 | | |
| MW-7D | | 136.08 | 1.00 | 135.08 | | |
| MW-9D | | 132.88 | 3.93 | 128.95 | | |
| MW-11D | | 135.35 | 0.31 | 135.04 | | |
| MW-13D | | 131.28 | 0.52 | 130.76 | | |
| MW-15D | | 133.19 | 1.18 | 132.01 | | |
| MW-17D | | 137.84 | 1.57 | 136.27 | | |
| MW-19D | | 137.05 | 1.34 | 135.71 | | |
| MW-1 | 03/22/05 | 135.69 | 1.39 | 134.30 | N-NW i = 0.02 | |
| MW-3 | | 133.75 | Artesian conditions | | | |
| MW-5 | | 135.36 | 0.86 | 134.50 | | |
| MW-7D | | 136.08 | 2.20 | 133.88 | | |
| MW-9D | | 132.88 | 7.12 | 125.76 | | |
| MW-11D | | 135.35 | 1.03 | 134.32 | | |
| MW-13D | | 131.28 | 0.20 | 131.08 | | |
| MW-15D | | 133.19 | 2.66 | 130.53 | | |
| MW-17D | | 137.84 | 1.14 | 136.70 | | |
| MW-19D | | 137.05 | 2.01 | 135.04 | | |
| MW-1 | 06/08/05 | 135.69 | 1.70 | 133.99 | Northerly i = 0.03 | |
| MW-3 | | 133.75 | 1.00 | 132.75 | | |
| MW-5 | | 135.36 | 2.03 | 133.33 | | |
| MW-7D | | 136.08 | 2.83 | 133.25 | | |
| MW-9D | | 132.88 | 7.16 | 125.72 | | |
| MW-11D | | 135.35 | 0.45 | 134.90 | | |
| MW-13D | | 131.28 | 2.87 | 128.41 | | |
| MW-15D | | 133.19 | 2.90 | 130.29 | | |
| MW-17D | | 137.84 | 3.07 | 134.77 | | |
| MW-19D | | 137.05 | 2.57 | 134.48 | | |

Table 3: Domestic Well Analytical Results
4660 Hessel Road, Sebastopol

| ID | Date | TPH-g | TPH-d | TPH-mo | B | T | E | X | EDC | MTBE | Other VOCs |
|--------|--------------|-------------------------------------|-------|--------|------|------|------|------|----------|------|------------|
| | | ug/L | | | | | | | | | |
| DW-1 | 08/09/99 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 10/20/99 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 02/28/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 08/22/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 02/26/02 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 08/27/02 | NA | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 02/19/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 08/21/03 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 03/03/04 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| DW-HD | 01/04/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 08/09/99 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 10/20/99 | <50 | <50 | 120 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 02/26/02 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 08/26/02 | Well was dry | | | | | | | | | |
| | 02/19/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | NA | <1.0 | <1.0 |
| DW-HD2 | 08/20/03 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 03/03/04 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 08/09/99 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 10/20/99 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 02/28/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 08/22/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 02/26/02 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 08/26/02 | NA | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 02/19/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 08/21/03 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | NA | <0.5 | <0.5 |
| DW-3 | 03/02/04 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 01/04/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 06/08/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 08/09/99 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | 2.2 EDC | <0.5 | NA |
| | 10/20/99 | <50 | <50 | <100 | 0.45 | <0.3 | <0.5 | <0.5 | 4.9 EDC | <0.5 | NA |
| | 01/11/00 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | 2.6 EDC | <0.5 | NA |
| | 01/17/00* | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | 2.2 EDC | <0.5 | NA |
| | 04/18/00 INF | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | 1.0 EDC | <0.5 | NA |
| | 04/18/00 EFF | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | 1.0 EDC | <0.5 | NA |
| | 07/26/00 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | 2.0 EDC | <0.5 | NA |
| | 11/27/00 | <50 | <50 | <100 | 0.31 | <0.3 | <0.5 | <0.5 | 3.2 EDC | <0.5 | NA |
| | 02/28/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 08/22/01 | No access - Property owner not home | | | | | | | | NA | |
| | 11/26/01 | No access - Property owner not home | | | | | | | | NA | |
| | 02/25/02 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | 0.70 EDC | <0.5 | NA |
| | 08/26/02 | NA | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | 2.1 EDC | <0.5 | <0.5 |
| | 02/19/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 08/21/03 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 03/02/04 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 01/04/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 06/08/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

* Confirmation sampling of January 11, 2000 detections.

Table 3: Domestic Well Analytical Results
4660 Hessel Road, Sebastopol

| ID | Date | TPH-g | TPH-d | TPH-mo | B | T | E | X | EDC | MTBE | Other VOCs |
|---------|-----------|-------|-------|--------|------|------|------|------|---------|------|------------|
| | | ug/L | | | | | | | | | |
| DW-4 | 08/09/99 | 190 | NA | NA | <0.3 | <0.3 | <0.5 | 3.0 | 11 EDC | <0.5 | NA |
| | 10/20/99 | 500 | <50 | <100 | 50 | 1.3 | 2.9 | 23 | 20 EDC | <0.5 | NA |
| | 01/11/00 | 67 | <50 | <100 | <0.3 | <0.3 | <0.5 | 2.6 | 7.1 EDC | <0.5 | NA |
| | 01/17/00* | 83 | NA | NA | 1.0 | <0.3 | <0.5 | <0.5 | 7.1 EDC | <0.5 | NA |
| | 04/18/00 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 07/20/00 | <50 | <50 | <100 | 2.3 | <0.3 | <0.5 | <0.5 | 2.6 EDC | <0.5 | NA |
| | 11/27/00 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 02/28/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 08/22/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 02/26/02 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA |
| | 08/26/02 | NA | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 02/19/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 08/21/03 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 03/02/04 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 01/04/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| DW-4615 | 08/26/02 | NA | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 02/19/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 05/15/03 | NA | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 08/21/03 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 11/21/03 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 03/02/04 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 06/07/04 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 01/04/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 03/24/05 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| DW-MB | 06/08/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 02/19/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 01/04/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

Note: Analysis for TPH-g, TPH-d, and TPH-mo removed from analytical suite with regulatory concurrence in August 20, 2002 letter.

* Confirmation sampling of January 11, 2000 contaminant hits.

Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol

Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol

| ID | Date | TPH-g | TPH-d | TPH-mo | B | T | E | X | EDC | MTBE | DPE | ETBE | TAME | TBA | n-butylbenzene | sec-butylbenzene | Methyl ethyl ketone | Styrene | isopropylbenzene | p-isopropyltoluene | naphthalene | n-propylbenzene | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Chloroform | |
|------|----------|-------|--------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------|------------------|---------------------|---------|------------------|--------------------|-------------|-----------------|------------------------|------------------------|------------|------|
| | | ug/L | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-3 | 07/12/99 | 180 | <50 | <100 | 25 | 3.8 | 5.9 | 20 | 0.58 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 10/20/99 | <50 | <50 | <100 | 0.32 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 01/11/00 | <50 | <50 | <100 | 0.90 | 0.61 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 04/18/00 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 07/20/00 | <50 | <50 | <200 | <0.5 | <0.5 | <0.5 | <1.5 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 11/27/00 | <50 | <50 | <100 | 3.1 | 4.5 | 1.4 | 4.8 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 02/28/01 | 85 | 79 | <100 | 4.0 | 9.0 | 1.6 | 6.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 05/29/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 08/24/01 | <50 | <50 | <100 | 0.57 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 11/26/01 | <50 | <50 | <100 | 0.34 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 02/26/02 | <50 | <50 | <100 | 2.6 | 0.45 | 0.66 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 05/30/02 | <50 | <50 | <200 | <0.5 | <0.5 | <0.5 | <1.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 08/27/02 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 11/20/02 | <50 | NA | NA | 0.4 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 02/19/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 05/14/03 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 08/20/03 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 11/21/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NA | NA | NA | 19 | 1.2 | <1.0 | <1.0 | 7.5 | <1.0 | 8.6 | <1.0 | 42 | 1.4 | <1.0 | <1.0 |
| | 03/03/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 06/07/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 01/04/05 | <50 | NA | NA | 1.0 | <1.0 | <1.0 | 1.0 | <1.0 | <1.0 | <1.0 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 03/22/05 | <50 | NA | NA | 1.0 | <1.0 | <1.0 | 4.2 | <1.0 | <1.0 | <1.0 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.5 | <1.0 | <1.0 | <1.0 |
| | 06/08/05 | 400 | NA | NA | <1.0 | 9.6 | 2.8 | 16.5 | 1.7 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 6.2 | 1.6 | <1.0 | <1.0 |
| MW-4 | 07/12/99 | 19000 | 3000 | <100 | 4000 | 680 | 990 | 3200 | 57 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 10/20/99 | 38000 | 1200 | <100 | 6100 | 330 | 1300 | 3100 | <10 | <10 | <10 | <10 | <10 | <200 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 01/11/00 | 30000 | 1200 | <100 | 4100 | 350 | 550 | 1600 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/18/00 | 30000 | 3300 ¹ | ND | 6600 | 750 | 1000 | 2700 | 80 | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 07/20/00 | 19000 | 3,200 ¹ | <200 | 4700 | 890 | 920 | 2200 | 62 | <2.0 | <2.0 | <2.0 | <2.0 | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 11/27/00 | 24000 | 2,000 ¹ | <100 | 6700 | 330 | 1200 | 2400 | 67 | <10 | < | | | | | | | | | | | | | | | |

Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol

| ID | Date | TPH-g | TPH-d | TPH-mo | B | T | E | X | EDC | MTBE | DPE | ETBE | TAME | TBA | n-butylbenzene | sec-butylbenzene | Methyl ethyl ketone | Styrene | isopropylbenzene | p-isopropyltoluene | naphthalene | n-propylbenzene | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Chloroform | |
|------|----------|-------|------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------|------------------|---------------------|---------|------------------|--------------------|-------------|-----------------|------------------------|------------------------|------------|----|
| | | ug/L | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 | 07/12/99 | 1,200 | ND ² | <100 | 13 | 0.89 | 19 | 7.3 | 0.92 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 10/20/99 | 760 | 58 | <100 | 0.86 | 0.34 | 34 | 2.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 01/11/00 | <50 | <50 | <100 | 1.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 04/18/00 | ND | ND ¹ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 07/20/00 | <50 | 170 ¹ | <200 | 0.84 | 0.54 | 1.1 | 2.8 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 11/27/00 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 02/28/01 | <50 | 54 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 05/29/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 08/22/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 11/26/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 02/25/02 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 05/29/02 | <50 | <50 | <200 | <0.5 | 0.59 | <0.5 | <1.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 08/26/02 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 11/19/02 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 02/19/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 05/14/03 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 08/20/03 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 11/20/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 03/03/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 06/07/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 09/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 01/04/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 03/22/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 06/08/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| MW-6 | 07/12/99 | <50 | <50 | <100 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 10/20/99 | <50 | <50 | <100 | 0.38 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 01/11/00 | 650 | 150 | <100 | 6.7 | <0.3 | 8.3 | 1.9 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/18/00 | 240 | 200 | ND | 4.7 | 1.1 | 3.6 | 3.2 | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 07/20/00 | 230 | 170 ¹ | ND | 1.4 | <0.5 | 1.8 | 1.4 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 11/27/00 | 220 | | | | | | | | | | | | | | | | | | | | | | | | |

**Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol**

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4660 Hessel Road, Sebastopol**

Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol

| ID | Date | TPH-g | TPH-d | TPH-mo | B | T | E | X | EDC | MTBE | DPE | ETBE | TAME | TBA | n-butylbenzene | sec-butylbenzene | Methyl ethyl ketone | Styrene | isopropylbenzene | p-isopropyltoluene | naphthalene | n-propylbenzene | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Chloroform |
|--------|----------|--------|--------------------|--------|-------|--------|-------|-------|------|------|------|------|------|--------|----------------|------------------|---------------------|---------|------------------|--------------------|-------------|-----------------|------------------------|------------------------|------------|
| | | ug/L | | | | | | | | | | | | | | | | | | | | | | | |
| MW-11D | 11/27/00 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 02/28/01 | <50 | 61 | <100 | 4.6 | 29 | 3.7 | 15 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 05/29/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 08/24/01 | 130 | <50 | <100 | 4.3 | 17 | 3.6 | 12 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 11/27/01 | <50 | <50 | <100 | 0.65 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 02/26/02 | 70 | <50 | <100 | 3.9 | 2.2 | 3.2 | 5.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 05/30/02 | <50 | <50 | <200 | 5.8 | 0.6 | 1.7 | 3.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 08/27/02 | <50 | NA | NA | 0.78 | <0.3 | 0.86 | 1.0 | <0.5 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 11/20/02 | <50 | NA | NA | 4.0 | 0.57 | 1.9 | 2.3 | <0.5 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | 0.55 | <0.5 | 0.71 | <0.5 | <0.5 |
| | 02/19/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 05/14/03 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.54 | <0.5 | <0.5 |
| | 08/20/03 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 11/21/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NA | NA | NA | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 03/03/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NA | NA | NA | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 06/08/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NA | NA | NA | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NA | NA | NA | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 01/05/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | <1.0 | NA | NA | NA | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 03/22/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | 1.0 | <1.0 | <1.0 | NA | NA | NA | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 06/08/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | 1.0 | <1.0 | <1.0 | NA | NA | NA | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-12 | 11/27/00 | 67,000 | 4,900 | <100 | 2,100 | 14,000 | 1,700 | 8,800 | <50 | <50 | <50 | <50 | <50 | <1,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 02/28/01 | 33,000 | 1,800 | 160 | 1,500 | 5,700 | 630 | 3,100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 05/29/01 | 64,000 | 2,900 ¹ | <100 | 2,200 | 7,200 | 1,000 | 5,300 | 19 | <5.0 | <5.0 | <5.0 | <5.0 | <100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 08/24/01 | 59,000 | 2,500 ¹ | <100 | 1,700 | 8,200 | 1,500 | 7,400 | <50 | <50 | <50 | <50 | <50 | <100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 11/27/01 | 40,000 | 800 | <100 | 640 | 5,300 | 820 | 3,600 | 2.8 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 02/26/02 | 23,000 | 1,400 ¹ | <100 | 1,600 | 760 | 660 | 1,300 | <250 | <250 | <250 | <250 | <250 | <5,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 05/30/02 | 16,000 | 2,000 ¹ | <200 | 2,300 | 280 | 790 | 1,600 | <50 | <50 | <50 | <50 | <50 | <1,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 08/27/02 | 28,000 | NA | NA | 2,300 | 280 | 2,200 | 4,000 | 12 | <5.0 | NA | NA | NA | <5.0 | 18 | 12 | 7 | 74 | 16 | 730 | 250 | 2,600 | 520 | <5.0 | |
| | 11/20/02 | 28,000 | NA | NA | 1,000 | 200 | 940 | 1,700 | <0.5 | <0.5 | NA | NA | NA | 20 | 7.9 | <1.0 | <0.5 | 45 | 4.1 | 420 | 88 | <0.5 | 260 | <0.5 | |
| | 02/19/03 | 14,000 | NA | NA | 1,200 | 200 | 680 | 920 | <25 | <25 | NA | NA | NA | <25 | <25 | <25 | <25 | 29 | <25 | 300 | 94 | 650 | 210 | <25 | |
| | 05/15/03 | 16,000 | NA | NA | 2,200 | 250 | 1,100 | 900 | <50 | <50 | NA | NA | NA | <50 | <50 | < | | | | | | | | | |

Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol

| ID | Date | TPH-g | TPH-d | TPH-mo | B | T | E | X | EDC | MTBE | DIPPE | ETBEE | TAME | TBA | n-butylbenzene | sec-butylbenzene | Methyl ethyl ketone | Styrene | isopropylbenzene | p-isopropyltoluene | naphthalene | n-propylbenzene | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Chloroform | |
|--------|----------|------------------|-------|--------|------|------|------|------|------|------|-------|-------|------|------|----------------|------------------|---------------------|---------|------------------|--------------------|-------------|-----------------|------------------------|------------------------|------------|------|
| | | ug/L | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-13D | 11/27/00 | 150 | <50 | <100 | 36 | 0.55 | 1.1 | 1.5 | 3.7 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 02/28/01 | 360 | 65 | <100 | 110 | <0.3 | <0.5 | <0.5 | 10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 05/29/01 | 390 | <50 | <100 | 100 | <0.3 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 08/22/01 | 330 ³ | <50 | <100 | 79 | <0.3 | <0.5 | <0.5 | 15 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 11/26/01 | 300 | <50 | <100 | 67 | <0.3 | <0.5 | 0.5 | 17 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 02/25/02 | 190 | <50 | <100 | 45 | 1.6 | 0.58 | <0.5 | 16 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 05/29/02 | 72 | <50 | <200 | 34 | <0.5 | <0.5 | <1.5 | 15 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| | 08/26/02 | 130 | NA | NA | 20 | <0.3 | <0.5 | <0.5 | 19 | <0.5 | NA | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 11/19/02 | 130 | NA | NA | 8.8 | <0.3 | <0.5 | <0.5 | 22 | <0.5 | NA | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 02/19/03 | 73 | NA | NA | 5.7 | <1.0 | <1.0 | <1.0 | 15 | <1.0 | NA | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 05/15/03 | <50 | NA | NA | 1.4 | <0.3 | <0.5 | <0.5 | 19 | <0.5 | NA | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 08/21/03 | 53 | NA | NA | 0.5 | 0.77 | <0.5 | 1.4 | 11 | <0.5 | NA | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 11/20/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | 16 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 03/02/04 | 51 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | 13 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 06/08/04 | 100 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | 14 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 09/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | 14 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 01/04/05 | 65 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | 2.1 | 9.8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.9 | <1.0 | <1.0 |
| | 03/22/05 | 85 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 9.7 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 06/08/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

³ According to laboratory report, gasoline results are primarily due to the presence of benzene.

**Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol**

| ID | Date | TPH-g | TPH-d | TPH-mo | B | T | E | X | EDC | MTBE | DIPE | ETBE | TAME | TBA | n-butylbenzene | sec-butylbenzene | Methyl ethyl ketone | Styrene | isopropylbenzene | p-isopropyltoluene | naphthalene | n-propylbenzene | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Chloroform |
|--------|-----------------------|--------|--------------------|--------|-------|------|-------|-------|------|------|------|------|------|---------|----------------|------------------|---------------------|---------|------------------|--------------------|-------------|-----------------|------------------------|------------------------|------------|
| | | ug/L | | | | | | | | | | | | | | | | | | | | | | | |
| MW-14 | 11/27/00 | <50 | <50 | <100 | 0.40 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 02/28/01 | <50 | 82 | <100 | 0.82 | <0.3 | 1.1 | 1.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 05/29/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 08/22/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 11/26/01 | <50 | <50 | <100 | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 02/25/02 | <50 | <50 | <100 | <0.3 | 1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 05/29/02 | <50 | <50 | <200 | <0.5 | <0.5 | <0.5 | <1.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 08/26/02 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 11/19/02 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 02/19/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 05/15/03 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 08/20/03 | <50 | NA | NA | <0.3 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 11/20/03 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 03/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 06/08/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 09/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 01/04/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | 1.3 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 03/22/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | 2.2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 06/08/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 6.3 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| MW-15D | 11/27/00 | 32,000 | 2,600 | <100 | 5,900 | 490 | 1,200 | 3,100 | 91 | <25 | <25 | <25 | <25 | <500 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 02/28/01 | 39,000 | 2,900 | <100 | 7,500 | 510 | 1500 | 3,500 | 96 | <0.5 | <0.5 | <0.5 | <0.5 | <500 | 650 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 05/29/01 | 39,000 | 840 ¹ | <100 | 6,000 | 360 | 940 | 2,100 | 80 | <5.0 | <5.0 | <5.0 | <5.0 | <50 | 330 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 08/24/01 | 45,000 | 1,700 ¹ | <100 | 6,900 | 410 | 1,300 | 2,900 | 99 | <50 | <50 | <50 | <50 | <1,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 11/26/01 | 42,000 | 1,700 | <100 | 7,900 | 520 | 1600 | 3,600 | 120 | <50 | <50 | <50 | <50 | <1,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 02/26/02 | 35,000 | 1,800 ¹ | <100 | 4,800 | <300 | 710 | 1,300 | <500 | <500 | <500 | <500 | <500 | <10,000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 05/30/02 | 14,000 | 1,300 ¹ | <200 | 4,600 | 220 | 680 | 1,300 | 2.1 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 08/27/02 | 32,000 | NA | NA | 4,300 | 310 | 840 | 1,300 | 81 | <50 | NA | NA | NA | NA | <5.0 | 9.4 | <5.0 | <5.0 | 37 | 8.8 | 320 | 110 | 550 | 240 | <5.0 |
| | 11/20/02 | 32,000 | NA | NA | 4,100 | 260 | 660 | 1,900 | 67 | <10 | NA | NA | NA | NA | 12 | 11 | <20 | <10 | 29 | <10 | 360 | 79 | 590 | 180 | <10 |
| | 12/30/02 ⁴ | 15,000 | NA | NA | 3,700 | 86 | 81 | 310 | 69 | <0.5 | NA | NA | NA | NA | 1.4 | 0.65 | <1.0 | <0.5 | 1.4 | <0.5 | 5.1 | 2.1 | 48 | 32 | <0.5 |
| | 02/19/03 | 17,000 | NA | NA | 4,200 | 200 | 660 | 1200 | 64 | <1.0 | NA | NA | NA | NA | <50 | <50 | <50 | <50 | <50 | <50 | 170 | 53 | 330 | 130 | <50 |
| | 05/15/03 | 17,000 | NA | NA | 5300 | 200 | 820 | 1,000 | 64 | <0.5 | NA | NA | NA | NA | <50 | <50 | <100 | <50 | 57 | <50 | 220 | 79 | 280 | 130 | <50 |
| | 08/21/03 | 27,000 | NA | NA | 4300 | 200 | 740 | 1300 | <250 | <250 | NA | NA | NA | NA | <250 | <250 | <500 | <250 | <250 | <250 | <250 | <250 | 380 | <250 | <250 |
| | 11/21/03 | 14,000 | NA | NA | 4300 | 190 | 810 | 610 | <50 | <50 | <50 | <50 | <50 | <1,000 | <50 | <50 | <50 | <50 | <50 | <50 | 230 | 68 | 470 | 150 | <50 |
| | 03/04/04 | 11,000 | NA | NA | 3800 | 180 | 660 | 1,153 | 50 | <50 | <50 | <50 | <50 | <1,000 | <50 | <50 | <50 | <50 | <50 | <50 | 210 | 74 | 380 | 140 | <50 |
| | 06/08/04 | 9,100 | NA | NA | 3200 | 120 | 580 | 870 | <50 | <50 | <50 | <50 | <50 | <1,000 | <50 | <50 | <50 | <50 | <50 | <50 | 180 | <50 | 290 | 110 | <50 |
| | 09/02/04 | 9,700 | NA | NA | 4,400 | 180 | 850 | 1,100 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 190 | 68 | 470 | 150 | <1.0 |
| | 01/04/05 | 17,000 | NA | NA | 4,100 | 140 | 750 | 910 | <50 | <50 | <50 | <50 | <50 | <1,000 | <50 | <50 | <50 | <50 | <50 | <50 | 210 | 60 | 360 | 140 | <50 |
| | 03/22/05 | 22,000 | NA | NA | 3,500 | 320 | 700 | 1,520 | <50 | <50 | <50 | <50 | <50 | <1,200 | <50 | <50 | <50 | <50 | <50 | <50 | 76 | 520 | 160 | <50 | |
| | 06/08/05 | 12,000 | NA | NA | 2,400 | 100 | 450 | 540 | <50 | <50 | <50 | <50 | <50 | <1,200 | <50 | <50 | <50 | <50 | <50 | <50 | 120 | <50 | 250 | 78 | <50 |

¹ According to the laboratory report, results in the diesel organics range are primarily due to overlap from a gasoline range product.

⁴ Confirmation sample collected on December 30, 2002, as the sample collected on November 20, 2002 was inadvertently collected from MW-15D and labeled as MW-16.

Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol

| ID | Date | TPH-g | TPH-d | TPH-mo | B | T | E | X | EDC | MTBE | DIPPE | ETBEE | TAME | TBA | n-butylbenzene | sec-butylbenzene | Methyl ethyl ketone | Styrene | isopropylbenzene | p-isopropyltoluene | naphthalene | n-propylbenzene | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Chloroform |
|-------|-----------------------|-------|-------|--------|------|------|------|-------|------|------|-------|-------|------|------|----------------|------------------|---------------------|---------|------------------|--------------------|-------------|-----------------|------------------------|------------------------|------------|
| | | ug/L | | | | | | | | | | | | | | | | | | | | | | | |
| MW-16 | 11/27/00 | 250 | <50 | <100 | 16 | 2.9 | 1.4 | 3.3 | 3.6 | <0.5 | <0.5 | <0.5 | <0.5 | 22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 02/28/01 | 300 | 60 | <100 | 48 | 0.67 | 1.5 | 2.5 | 3.7 | <0.5 | <0.5 | <0.5 | <0.5 | 46 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 05/29/01 | 390 | <50 | <100 | 47 | <0.3 | <0.5 | <0.5 | 3.4 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 08/24/01 | 550 | <50 | <100 | 29 | <0.3 | 0.51 | 0.61 | 4.9 | <0.5 | <0.5 | <0.5 | <0.5 | 33 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 11/26/01 | 370 | 73 | <100 | 16 | 0.55 | 2 | 3.4 | 5.9 | <0.5 | <0.5 | <0.5 | <0.5 | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 02/26/02 | 150 | <50 | <100 | 15 | <0.3 | 1.2 | 2.1 | 2.6 | <0.5 | <0.5 | <0.5 | <0.5 | 18 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 05/30/02 | 72 | <50 | <200 | 9.9 | 0.52 | 1.6 | 2.4 | 2.1 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 08/27/02 | 140 | NA | NA | 7.3 | 0.4 | 1.3 | 1.3 | 2.8 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <0.5 | <0.5 | 0.67 | <0.5 | <0.5 | 0.79 | <0.5 | <0.5 | <0.5 | |
| | 12/30/02 ⁴ | 200 | NA | NA | 5.9 | <0.3 | <0.5 | 1.2 | 5 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | 0.84 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 02/19/03 | 120 | NA | NA | 4.5 | <1.0 | <1.0 | <1.0 | 2.7 | <1.0 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 05/15/03 | 110 | NA | NA | 5.4 | <0.3 | <0.5 | <0.5 | 2.7 | <0.5 | NA | NA | NA | <0.5 | <0.5 | <1.0 | <0.5 | 0.81 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 08/21/03 | 190 | NA | NA | 2.8 | <1.5 | <2.5 | <2.5 | 3.8 | <2.5 | NA | NA | NA | <2.5 | <2.5 | <5.0 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| | 11/21/03 | 190 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | 3.8 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 03/03/04 | 150 | NA | NA | 1.5 | <1.0 | <1.0 | <1.0 | 2.4 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 06/08/04 | 180 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | 2.9 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 09/02/04 | 130 | NA | NA | 1.2 | <1.0 | <1.0 | <1.0 | 3.7 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 01/04/05 | 230 | NA | NA | 3.9 | <1.0 | <1.0 | 1.5 | 4.3 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 03/22/05 | 120 | NA | NA | 2.0 | <1.0 | <1.0 | <1.0 | 2.5 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 06/08/05 | 8,500 | NA | NA | 8.8 | 420 | 190 | 1,290 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | 69 | 9.6 | <1.0 | <1.0 | 17 | 22 | 300 | 76 | 1,000 | 250 | <1.0 |

⁴ Confirmation sample collected on December 30, 2002, as the sample collected on November 20, 2002 was inadvertently collected from MW-15D and labeled as MW-16.

Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol

| ID | Date | TPH-g | TPH-d | TPH-mo | B | T | E | X | EDC | MTBE | DIPPE | ETBEE | TAME | TBA | n-butylbenzene | sec-butylbenzene | Methyl ethyl ketone | Styrene | isopropylbenzene | p-isopropyltoluene | naphthalene | n-propylbenzene | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Chloroform | |
|--------|----------|---------------------|-------|--------|-------|--------|-------|--------|------|------|-------|-------|------|--------|----------------|------------------|---------------------|---------|------------------|--------------------|-------------|-----------------|------------------------|------------------------|------------|------|
| | | ug/L | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-17D | 03/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 06/08/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 09/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 01/04/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 03/22/05 | 450 | NA | NA | 2.0 | 27 | 6.6 | 43 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 4.6 | 1.5 | 16 | 3.7 | <1.0 | |
| | 06/08/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| MW-18 | 03/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 06/08/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 09/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 01/04/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 03/22/05 | 720 | NA | NA | 1.8 | 38 | 11 | 70 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | 1.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 4.7 | 3.2 | 26 | 8.0 | <1.0 | |
| | 06/08/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| MW-19D | 03/03/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | 1.3 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 8.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 06/08/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 4.4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/02/04 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 01/04/05 | 78 | NA | NA | <1.0 | 2.2 | <1.0 | 6.9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2.8 | 1.1 | <1.0 | |
| | 03/22/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | 1.2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 06/08/05 | <50 | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| MW-20 | 03/03/04 | 7,800 | NA | NA | 400 | 2,600 | 460 | 3,420 | <25 | <25 | <25 | <25 | <25 | <500 | <25 | <25 | <25 | <25 | 26 | <25 | 250 | 87 | 1,100 | 300 | <25 | |
| | 06/08/04 | 14,000 | NA | NA | 320 | 1,300 | 240 | 1,490 | <25 | <25 | <25 | <25 | <25 | <600 | <25 | <25 | <25 | <25 | <25 | <25 | 120 | 47 | 440 | 140 | <25 | |
| | 09/02/04 | 16,000 | NA | NA | 340 | 1,700 | 350 | 1,830 | <25 | <25 | <25 | <25 | <25 | <500 | 36 | <25 | <25 | <25 | <25 | <25 | 170 | 78 | 840 | 250 | <25 | |
| | 01/04/05 | 15,000 | NA | NA | 330 | 1,100 | 150 | 1,470 | <25 | <25 | <25 | <25 | <25 | <500 | <25 | <25 | <25 | <25 | <25 | <25 | 140 | 51 | 590 | 180 | <25 | |
| | 03/22/05 | 42,000 | NA | NA | 640 | 4,200 | 980 | 6,100 | <25 | <25 | <25 | <25 | <25 | <600 | 75 | <25 | <25 | <25 | 65 | <25 | 680 | 230 | 2,600 | 680 | <25 | |
| | 06/08/05 | 370000 ⁵ | NA | NA | 2,200 | 24,000 | 7,200 | 57,000 | <200 | <200 | <200 | <200 | <200 | <5,000 | 22,000 | 2,700 | <200 | <200 | 1,900 | 2,100 | 46,000 | 12,000 | 150,000 | 42,000 | <200 | |

Note: TPH-d and TPH-mo removed from analytical suite for all wells with regulatory concurrence in August 20, 2002 letter.

¹ According to the laboratory report, results in the diesel organics range are primarily due to overlap from a gasoline range product.

² Also ND for TPH-k.

³ According to laboratory report, gasoline results are primarily due to the presence of benzene.

⁴ Confirmation sample collected on December 30, 2002, as the sample collected on November 20, 2002 was inadvertently collected from MW-15D and labeled as MW-16.

⁵ The sample exhibited floating product. The sample for analysis was taken from beneath the floating product surface.

**Table 5: Surface Water Analytical Results
4660 Hessel Road, Sebastopol**

APPENDIX A

WELL PURGE RECORDS, DATED JUNE 8, 2005

SCS ENGINEERS

WELL PURGE RECORD

2005 - 2nd Quarter

WELL NUMBER

MW- 4

SCS ENGINEERS

WELL PURGE RECORD

2005 - 2nd Quarter

WELL NUMBER

MW- 5

SCS ENGINEERS

WELL PURGE RECORD

2005 - 2nd Quarter

WELL NUMBER

MW- 6

SCS ENGINEERS

WELL PURGE RECORD

2005 - 2nd Quarter

WELL NUMBER

MW-11D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 2nd Quarter

WELL NUMBER

MW-12

SCS ENGINEERS

WELL PURGE RECORD

2005 - 2nd Quarter

WELL NUMBER

MW-13D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 2nd Quarter

WELL NUMBER

MW-14

SCS ENGINEERS

WELL PURGE RECORD

2005 - 2nd Quarter

WELL NUMBER

MW-15D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 2nd Quarter

WELL NUMBER

MW-16

SCS ENGINEERS

WELL PURGE RECORD

2005 - 2nd Quarter

WELL NUMBER

MW-17D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 2nd Quarter

WELL NUMBER

MW-18

SCS ENGINEERS

WELL PURGE RECORD

2005 - 2nd Quarter

WELL NUMBER

MW-19D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 2nd Quarter

WELL NUMBER

MW-20

APPENDIX B

ANALYTICAL SCIENCES REPORT #5060906, DATED JUNE 17, 2005
ANALYTICAL SCIENCES REPORT #5060907, DATED JUNE 17, 2005
ANALYTICAL SCIENCES REPORT #5060908, DATED JUNE 17, 2005
ANALYTICAL SCIENCES REPORT #5060909, DATED JUNE 17, 2005
ANALYTICAL SCIENCES REPORT #5060910, DATED JUNE 17, 2005



Report Date: August 4, 2005

Stephen Knüttel
SCS Engineers
3645 Westwind Blvd.
Santa Rosa, CA 95403

LABORATORY REPORT

Project Name: **Hessel Rd.** **01203317.00**

Lab Project Number: **5060906**

This 27 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director



TPH Gasoline in Water

| Lab # | Sample ID | Analysis | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--------------|---------------|------------|
| 30132 | MW-3 | TPH/Gasoline | 400 | 50 |
| 30133 | MW-4 | TPH/Gasoline | 730 | 50 |
| 30134 | MW-5 | TPH/Gasoline | ND | 50 |
| 30135 | MW-6 | TPH/Gasoline | 94 | 50 |
| 30136 | MW-11D | TPH/Gasoline | ND | 50 |
| 30137 | MW-12 | TPH/Gasoline | 14,000 | 500 |
| 30138 | MW-13 | TPH/Gasoline | ND | 50 |
| 30139 | MW-14 | TPH/Gasoline | ND | 50 |
| 30140 | MW-15D | TPH/Gasoline | 12,000 | 1,000 |
| 30141 | MW-16 | TPH/Gasoline | 8,500 | 500 |
| 30142 | MW-17D | TPH/Gasoline | ND | 50 |

Date Sampled: 06/08/05
Date Received: 06/09/05

Date Analyzed: 06/10-11/05, 06/14/05
Method: EPA 5030/8015M

QC Batch #: 5575



Volatile Hydrocarbons by GC/MS in Water

| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|---------------|------------|
| 30132 | MW-3 | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorofluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | 1.7 | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | 9.6 | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | 2.8 | 1.0 |
| | | m,p-xylene | 12 | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | 4.5 | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|---------------|------------|
| 30132 | MW-3 | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | ND | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | 1.6 | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | 6.2 | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | ND | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | ND | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.0 | 100 | 70 – 130 |
| toluene-d ₈ (20) | 19.8 | 99.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.9 | 94.5 | 70 – 130 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05 | QC Batch #: 5576 |
| Date Received: 06/09/05 | Method: EPA 8260B | |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30133 | MW-4 | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorodifluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | 6.4 | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | 5.7 | 1.0 |
| | | m,p-xylene | 30 | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | 13 | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|---------------|------------|
| 30133 | MW-4 | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | 4.2 | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | 14 | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | 58 | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | 6.0 | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | 25 | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.2 | 101 | 70 – 130 |
| toluene-d ₈ (20) | 19.9 | 99.5 | 70 – 130 |
| 4-bromofluorobenzene (20) | 19.1 | 95.5 | 70 – 130 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05 | QC Batch #: 5576 |
| Date Received: 06/09/05 | Method: EPA 8260B | |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30134 | MW-5 | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorofluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | ND | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | ND | 1.0 |
| | | m,p-xylene | ND | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | ND | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|---------------|------------|
| 30134 | MW-5 | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | ND | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | ND | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | ND | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | ND | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | ND | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.4 | 102 | 70 – 130 |
| toluene-d ₈ (20) | 19.7 | 98.5 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.7 | 93.5 | 70 – 130 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05 | QC Batch #: 5576 |
| Date Received: 06/09/05 | Method: EPA 8260B | |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30135 | MW-6 | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorofluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | ND | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | 1.7 | 1.0 |
| | | m,p-xylene | ND | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | ND | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|---------------|------------|
| 30135 | MW-6 | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | ND | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | ND | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | 1.5 | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | ND | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | ND | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 19.9 | 99.5 | 70 – 130 |
| toluene-d ₈ (20) | 19.6 | 98.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.7 | 93.5 | 70 – 130 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05 | QC Batch #: 5576 |
| Date Received: 06/09/05 | Method: EPA 8260B | |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30136 | MW-11D | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorodifluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | ND | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | ND | 1.0 |
| | | m,p-xylene | ND | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | ND | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|------------------|---------------|
| 30136 | MW-11D | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | ND | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | ND | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | ND | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | ND | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | ND | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.5 | 103 | 70 – 130 |
| toluene-d ₈ (20) | 19.7 | 98.5 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.7 | 93.5 | 70 – 130 |

Date Sampled: 06/08/05
Date Received: 06/09/05

Date Analyzed: 06/10/05
Method: EPA 8260B

QC Batch #: 5576



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30137 | MW-12 | dichlorodifluoromethane | ND | 5.0 |
| | | chloromethane | ND | 5.0 |
| | | vinyl chloride | ND | 5.0 |
| | | chloroethane | ND | 5.0 |
| | | bromomethane | ND | 5.0 |
| | | trichlorodifluoromethane | ND | 5.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 5.0 |
| | | methylene chloride | ND | 5.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 5.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 5.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 5.0 |
| | | 2,2-dichloropropane | ND | 5.0 |
| | | chloroform (THM1) | ND | 5.0 |
| | | bromochloromethane | ND | 5.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 5.0 |
| | | 1,2-dichloroethane (EDC) | ND | 5.0 |
| | | 1,1-dichloropropene | ND | 5.0 |
| | | carbon tetrachloride | ND | 5.0 |
| | | benzene | 340 | 5.0 |
| | | trichloroethene (TCE) | ND | 5.0 |
| | | 1,2-dichloropropane (DCP) | ND | 5.0 |
| | | dibromomethane | ND | 5.0 |
| | | bromodichloromethane (THM2) | ND | 5.0 |
| | | cis-1,3-dichloropropene | ND | 5.0 |
| | | toluene | 560 | 5.0 |
| | | 1,1,2-trichloroethane | ND | 5.0 |
| | | 1,3-dichloropropane | ND | 5.0 |
| | | dibromochloromethane (THM3) | ND | 5.0 |
| | | tetrachloroethene (PCE) | ND | 5.0 |
| | | 1,2-dibromoethane (EDB) | ND | 5.0 |
| | | chlorobenzene | ND | 5.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 5.0 |
| | | ethyl benzene | 470 | 5.0 |
| | | m,p-xylene | 910 | 5.0 |
| | | styrene | ND | 5.0 |
| | | o-xylene | 100 | 5.0 |
| | | bromoform (THM4) | ND | 5.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 5.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|---------------|------------|
| 30137 | MW-12 | isopropyl benzene | 27 | 5.0 |
| | | 1,2,3-trichloropropane | ND | 5.0 |
| | | bromobenzene | ND | 5.0 |
| | | n-propyl benzene | 400 | 5.0 |
| | | 2-chlorotoluene | ND | 5.0 |
| | | 4-chlorotoluene | ND | 5.0 |
| | | 1,3,5-trimethylbenzene | 200 | 5.0 |
| | | tert-butylbenzene | ND | 5.0 |
| | | 1,2,4-trimethylbenzene | 800 | 5.0 |
| | | sec-butylbenzene | 5.0 | 5.0 |
| | | 1,3-dichlorobenzene | ND | 5.0 |
| | | 1,4-dichlorobenzene | ND | 5.0 |
| | | 1,2-dichlorobenzene | ND | 5.0 |
| | | p-isopropyltoluene | 10 | 5.0 |
| | | n-butylbenzene | 24 | 5.0 |
| | | 1,2,4-trichlorobenzene | ND | 5.0 |
| | | naphthalene | 180 | 5.0 |
| | | hexachlorobutadiene | ND | 5.0 |
| | | 1,2,3-trichlorobenzene | ND | 5.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 120 |
| methyl tert-butyl ether (MTBE) | ND | 5.0 |
| di-isopropyl ether (DIPE) | ND | 5.0 |
| ethyl tert-butyl ether (ETBE) | ND | 5.0 |
| tert-amyl methyl ether (TAME) | ND | 5.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 19.9 | 99.5 | 70 – 130 |
| toluene-d ₈ (20) | 19.9 | 99.5 | 70 – 130 |
| 4-bromofluorobenzene (20) | 19.2 | 96.0 | 70 – 130 |

| | | |
|-------------------------|-----------------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05, 06/14/05 | QC Batch #: 5576 |
| Date Received: 06/09/05 | Method: EPA 8260B | |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30138 | MW-13 | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorodifluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | ND | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | ND | 1.0 |
| | | m,p-xylene | ND | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | ND | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|------------------|---------------|
| 30138 | MW-13 | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | ND | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | ND | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | ND | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | ND | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | ND | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.2 | 101 | 70 – 130 |
| toluene-d ₈ (20) | 19.8 | 99.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.6 | 93.2 | 70 – 130 |

Date Sampled: 06/08/05
Date Received: 06/09/05

Date Analyzed: 06/10/05
Method: EPA 8260B

QC Batch #: 5576



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30139 | MW-14 | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorodifluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | 6.3 | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | ND | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | ND | 1.0 |
| | | m,p-xylene | ND | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | ND | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|------------------|---------------|
| 30139 | MW-14 | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | ND | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | ND | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | ND | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | ND | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | ND | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.3 | 102 | 70 – 130 |
| toluene-d ₈ (20) | 20.0 | 100 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.8 | 94.0 | 70 – 130 |

Date Sampled: 06/08/05
Date Received: 06/09/05

Date Analyzed: 06/13/05
Method: EPA 8260B

QC Batch #: 5576



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30140 | MW-15D | dichlorodifluoromethane | ND | 50 |
| | | chloromethane | ND | 50 |
| | | vinyl chloride | ND | 50 |
| | | chloroethane | ND | 50 |
| | | bromomethane | ND | 50 |
| | | trichlorofluoromethane | ND | 50 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 50 |
| | | methylene chloride | ND | 50 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 50 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 50 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 50 |
| | | 2,2-dichloropropane | ND | 50 |
| | | chloroform (THM1) | ND | 50 |
| | | bromochloromethane | ND | 50 |
| | | 1,1,1-trichloroethane (TCA) | ND | 50 |
| | | 1,2-dichloroethane (EDC) | ND | 50 |
| | | 1,1-dichloropropene | ND | 50 |
| | | carbon tetrachloride | ND | 50 |
| | | benzene | 2,400 | 50 |
| | | trichloroethene (TCE) | ND | 50 |
| | | 1,2-dichloropropane (DCP) | ND | 50 |
| | | dibromomethane | ND | 50 |
| | | bromodichloromethane (THM2) | ND | 50 |
| | | cis-1,3-dichloropropene | ND | 50 |
| | | toluene | 100 | 50 |
| | | 1,1,2-trichloroethane | ND | 50 |
| | | 1,3-dichloropropane | ND | 50 |
| | | dibromochloromethane (THM3) | ND | 50 |
| | | tetrachloroethene (PCE) | ND | 50 |
| | | 1,2-dibromoethane (EDB) | ND | 50 |
| | | chlorobenzene | ND | 50 |
| | | 1,1,1,2-tetrachloroethane | ND | 50 |
| | | ethyl benzene | 450 | 50 |
| | | m,p-xylene | 540 | 50 |
| | | styrene | ND | 50 |
| | | o-xylene | ND | 50 |
| | | bromoform (THM4) | ND | 50 |
| | | 1,1,2,2-tetrachloroethane | ND | 50 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|---------------|------------|
| 30140 | MW-15D | isopropyl benzene | ND | 50 |
| | | 1,2,3-trichloropropane | ND | 50 |
| | | bromobenzene | ND | 50 |
| | | n-propyl benzene | ND | 50 |
| | | 2-chlorotoluene | ND | 50 |
| | | 4-chlorotoluene | ND | 50 |
| | | 1,3,5-trimethylbenzene | 78 | 50 |
| | | tert-butylbenzene | ND | 50 |
| | | 1,2,4-trimethylbenzene | 250 | 50 |
| | | sec-butylbenzene | ND | 50 |
| | | 1,3-dichlorobenzene | ND | 50 |
| | | 1,4-dichlorobenzene | ND | 50 |
| | | 1,2-dichlorobenzene | ND | 50 |
| | | p-isopropyltoluene | ND | 50 |
| | | n-butylbenzene | ND | 50 |
| | | 1,2,4-trichlorobenzene | ND | 50 |
| | | naphthalene | 120 | 50 |
| | | hexachlorobutadiene | ND | 50 |
| | | 1,2,3-trichlorobenzene | ND | 50 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-------|
| tert-butyl alcohol (TBA) | ND | 1,200 |
| methyl tert-butyl ether (MTBE) | ND | 50 |
| di-isopropyl ether (DIPE) | ND | 50 |
| ethyl tert-butyl ether (ETBE) | ND | 50 |
| tert-amyl methyl ether (TAME) | ND | 50 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 19.8 | 99.0 | 70 – 130 |
| toluene-d ₈ (20) | 19.9 | 99.5 | 70 – 130 |
| 4-bromofluorobenzene (20) | 19.0 | 95.0 | 70 – 130 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/13/05 | QC Batch #: 5576 |
| Date Received: 06/09/05 | Method: EPA 8260B | |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30141 | MW-16 | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorofluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | 8.8 | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | 420 | 10 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | 190 | 10 |
| | | m,p-xylene | 910 | 10 |
| | | styrene | ND | 1.0 |
| | | o-xylene | 380 | 10 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|---------------|------------|
| 30141 | MW-16 | isopropyl benzene | 17 | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | 76 | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | 250 | 10 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | 1,000 | 10 |
| | | sec-butylbenzene | 9.6 | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | 22 | 1.0 |
| | | n-butylbenzene | 69 | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | 300 | 10 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 19.9 | 99.5 | 70 – 130 |
| toluene-d ₈ (20) | 20.1 | 101 | 70 – 130 |
| 4-bromofluorobenzene (20) | 20.3 | 102 | 70 – 130 |

| | | |
|-------------------------|-----------------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05, 06/13/05 | QC Batch #: 5576 |
| Date Received: 06/09/05 | Method: EPA 8260B | |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30142 | MW-17D | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorofluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | ND | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | ND | 1.0 |
| | | m,p-xylene | ND | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | ND | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|------------------|---------------|
| 30142 | MW-17D | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | ND | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | ND | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | ND | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | ND | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | ND | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.1 | 101 | 70 – 130 |
| toluene-d ₈ (20) | 19.8 | 99.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.8 | 94.0 | 70 – 130 |

Date Sampled: 06/08/05
Date Received: 06/09/05

Date Analyzed: 06/10/05
Method: EPA 8260B

QC Batch #: 5576



LABORATORY

QUALITY ASSURANCE REPORT

QC Batch #: 5575

Lab Project #: 5060906

| Sample ID | Compound | Result (ug/L) |
|-----------|---------------|---------------|
| MB | TPH/Gas | ND |
| MB | MTBE | ND |
| MB | Benzene | ND |
| MB | Toluene | ND |
| MB | Ethyl Benzene | ND |
| MB | Xylenes | ND |

| Sample # | Sample ID | Compound | Result (ug/L) | Spike Level | % Recv. |
|----------|-----------|---------------|---------------|-------------|---------|
| 30132 | CMS | TPH/Gas | | NS | |
| | CMS | Benzene | 9.60 | 10.0 | 96.0 |
| | CMS | Toluene | 9.33 | 10.0 | 93.3 |
| | CMS | Ethyl Benzene | 9.62 | 10.0 | 96.2 |
| | CMS | Xylenes | 30.4 | 30.0 | 101 |

| Sample # | Sample ID | Compound | Result (ug/L) | Spike Level | % Recv. | RPD |
|----------|-----------|---------------|---------------|-------------|---------|-----|
| 30132 | CMSD | TPH/Gas | | NS | | |
| | CMSD | Benzene | 9.75 | 10.0 | 97.5 | 1.5 |
| | CMSD | Toluene | 9.45 | 10.0 | 94.5 | 1.3 |
| | CMSD | Ethyl Benzene | 10.1 | 10.0 | 101 | 4.6 |
| | CMSD | Xylenes | 31.0 | 30.0 | 103 | 2.1 |

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



QC Batch #: 5576

Lab Project #: 5060906

| Sample ID | Compound Name | Result (ug/L) |
|-----------|--------------------|---------------|
| MB | 1,1-dichloroethene | ND |
| MB | benzene | ND |
| MB | trichloroethene | ND |
| MB | toluene | ND |
| MB | chlorobenzene | ND |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 19.7 | 98.5 | 70 – 130 |
| toluene-d ₈ (20) | 19.7 | 98.5 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.3 | 91.5 | 70 – 130 |

| Sample ID | Compound Name | Result (ug/L) | Spike Level | % Recv. |
|-----------|--------------------|---------------|-------------|---------|
| LCS | 1,1-dichloroethene | 28.5 | 25.0 | 103 |
| LCS | benzene | 25.3 | 25.0 | 101 |
| LCS | trichloroethene | 24.3 | 25.0 | 97.2 |
| LCS | toluene | 24.8 | 25.0 | 99.2 |
| LCS | chlorobenzene | 24.8 | 25.0 | 98.8 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.0 | 100 | 70 – 130 |
| toluene-d ₈ (20) | 19.8 | 99.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.5 | 92.5 | 70 – 130 |



| Sample ID | Compound Name | Result (ug/L) | Spike Level | % Recv. | RPD |
|-----------|--------------------|---------------|-------------|---------|-----|
| LCSD | 1,1-dichloroethene | 27.7 | 25.0 | 111 | 2.8 |
| LCSD | benzene | 25.2 | 25.0 | 101 | .39 |
| LCSD | trichloroethene | 23.8 | 25.0 | 95.2 | 2.1 |
| LCSD | toluene | 24.5 | 25.0 | 98.0 | 1.2 |
| LCSD | chlorobenzene | 24.7 | 25.0 | 98.8 | 0.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.2 | 101 | 70 – 130 |
| toluene-d ₈ (20) | 19.6 | 98.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.5 | 92.5 | 70 – 130 |

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



CHAIN OF CUSTODY

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128

| | | | |
|---------------------------|-------------------------|----------------------------|----------------------------|
| CLIENT INFORMATION | | BILLING INFORMATION | |
| COMPANY NAME: | SCS ENGINEERS | CONTACT: | <u>John Kiddle</u> |
| ADDRESS: | 3645 WESTWIND BOULEVARD | COMPANY NAME: | <u>Holle Hessel Edel</u> |
| SANTA ROSA, CA | 95403 | ADDRESS: | <u>Sebastopol CA 95472</u> |
| CONTACT: | <u>Steven Smith</u> | PHONE#: | <u>707-823-1114</u> |
| PHONE#: | <u>(707) 546-9461</u> | FAX #: | <u>(707) 544-5769</u> |

| | | | |
|-------------------------------|--|-------------------------------------|---|
| LAB PROJECT NUMBER: | | <u>566906</u> | |
| SCS ENGINEERS PROJECT NAME: | | <u>Q1Z03317.00</u> | |
| SCS ENGINEERS PROJECT NUMBER: | | <u>HESSE ROAD</u> | |
| TURNAROUND TIME (check one) | | | |
| MOBILE LAB | | 24 Hours _____ | |
| SAME DAY | | 72 Hours _____ | |
| 48 HOURS | | NORMAL _____ | |
| 5 DAYS | | Y _____ | |
| GEOTRACKER EDF: | | <input checked="" type="checkbox"/> | N |
| GLOBAL ID: | | <u>Tablet920318</u> | |
| COOLER TEMPERATURE | | _____ °C | |
| | | COC | |

| ITEM | CLIENT SAMPLE I.D. | DATE SAMPLED | TIME | MATRIX | # CONT. | PRESV. YEAR | COMMENTS | | LAB SAMPLE # |
|------|--------------------|-----------------|-------|--------|------------|----------------|------------|--------------------------------|--------------------|
| | | | | | | | TOTAL LEAD | CA/METALS / 5 LUFT METALS / | |
| 1 | MN-3 | 6/8 | 2:20 | Liq | 4 | Y | | | 30132 |
| 2 | MN-4 | 6/8 | 2:25 | Liq | 4 | Y | | | 30133 |
| 3 | MN-5 | 6/8 | 11:50 | Liq | 4 | Y | | | 30134 |
| 4 | MN-6 | 6/8 | 11:40 | Liq | 4 | Y | | | 30135 |
| 5 | MN-11D | 6/8 | 21:00 | Liq | 4 | Y | | | 30136 |
| 6 | MN-12 | 6/8 | 2:30 | Liq | 4 | Y | | | 30137 |
| 7 | MN-13 | 6/8 | 1:00 | Liq | 4 | Y | | | 30138 |
| 8 | MN-14 | 6/8 | 12:40 | Liq | 4 | Y | | | 30139 |
| 9 | MN-15D | 6/8 | 1:35 | Liq | 4 | Y | | | 30140 |
| 10 | MN-16 | 6/8 | 1:30 | Liq | 4 | Y | | | 30141 |
| 11 | MN-17D | 6/8 | 11:15 | Liq | 4 | Y | | | 30142 |

| RELINQUISHED BY: | | DATE: 6-9-05 | TIME: 11:05 | RECEIVED BY LABORATORY: | DATE: 6-9-05 | TIME: 11:05 |
|------------------|--|--------------|-------------|-------------------------|--------------|-------------|
| RECEIVED BY: | | | | <i>CC</i> | <i>CC</i> | <i>CC</i> |
| RELINQUISHED BY: | | | | | | |
| RECEIVED BY: | | | | | | |

SIGNATURES



Report Date: June 17, 2005

Stephen Knüttel
SCS Engineers
3645 Westwind Blvd.
Santa Rosa, CA 95403

LABORATORY REPORT

Project Name: **Hessel Rd.** **01203317.00**

Lab Project Number: **5060907**

This 13 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director



TPH Gasoline in Water

| Lab # | Sample ID | Analysis | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--------------|---------------|------------|
| 30143 | MW-18 | TPH/Gasoline | ND | 50 |

| | | |
|-------------------------|-----------------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05, 06/14/05 | QC Batch #: 5575 |
| Date Received: 06/09/05 | Method: EPA 5030/8015M | |

| Lab # | Sample ID | Analysis | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--------------|---------------|------------|
| 30144 | MW-19D | TPH/Gasoline | ND | 50 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05 | QC Batch #: 5575 |
| Date Received: 06/09/05 | Method: EPA 5030/8015M | |

| Lab # | Sample ID | Analysis | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--------------|---------------|------------|
| 30145 | MW-20 | TPH/Gasoline | 370,000 (1) | 5,000 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/11/05 | QC Batch #: 5575 |
| Date Received: 06/09/05 | Method: EPA 5030/8015M | |

| Lab # | Sample ID | Analysis | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--------------|---------------|------------|
| 30146 | Standpipe | TPH/Gasoline | ND | 50 |

| | | |
|-------------------------|-----------------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/11/05, 06/14/05 | QC Batch #: 5575 |
| Date Received: 06/09/05 | Method: EPA 5030/8015M | |

(1) The sample exhibited floating product. The sample for analysis was taken from beneath the floating product surface.



Volatile Hydrocarbons by GC/MS in Water

| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30143 | MW-18 | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorofluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | ND | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | ND | 1.0 |
| | | m,p-xylene | ND | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | ND | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|---------------|------------|
| 30143 | MW-18 | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | ND | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | ND | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | ND | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | ND | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | ND | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 19.8 | 99.0 | 70 – 130 |
| toluene-d ₈ (20) | 19.9 | 99.5 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.8 | 94.0 | 70 – 130 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05 | QC Batch #: 5576 |
| Date Received: 06/09/05 | Method: EPA 8260B | |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30144 | MW-19D | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorofluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | ND | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | ND | 1.0 |
| | | m,p-xylene | ND | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | ND | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|------------------|---------------|
| 30144 | MW-19D | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | ND | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | ND | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | ND | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | ND | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | ND | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.3 | 102 | 70 – 130 |
| toluene-d ₈ (20) | 19.9 | 99.5 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.7 | 93.5 | 70 – 130 |

Date Sampled: 06/08/05
Date Received: 06/09/05

Date Analyzed: 06/13/05
Method: EPA 8260B

QC Batch #: 5576



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30145 | MW-20 | dichlorodifluoromethane | ND (1) | 200 |
| | | chloromethane | ND | 200 |
| | | vinyl chloride | ND | 200 |
| | | chloroethane | ND | 200 |
| | | bromomethane | ND | 200 |
| | | trichlorofluoromethane | ND | 200 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 200 |
| | | methylene chloride | ND | 200 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 200 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 200 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 200 |
| | | 2,2-dichloropropane | ND | 200 |
| | | chloroform (THM1) | ND | 200 |
| | | bromochloromethane | ND | 200 |
| | | 1,1,1-trichloroethane (TCA) | ND | 200 |
| | | 1,2-dichloroethane (EDC) | ND | 200 |
| | | 1,1-dichloropropene | ND | 200 |
| | | carbon tetrachloride | ND | 200 |
| | | benzene | 2,200 | 200 |
| | | trichloroethene (TCE) | ND | 200 |
| | | 1,2-dichloropropane (DCP) | ND | 200 |
| | | dibromomethane | ND | 200 |
| | | bromodichloromethane (THM2) | ND | 200 |
| | | cis-1,3-dichloropropene | ND | 200 |
| | | toluene | 24,000 | 200 |
| | | 1,1,2-trichloroethane | ND | 200 |
| | | 1,3-dichloropropane | ND | 200 |
| | | dibromochloromethane (THM3) | ND | 200 |
| | | tetrachloroethene (PCE) | ND | 200 |
| | | 1,2-dibromoethane (EDB) | ND | 200 |
| | | chlorobenzene | ND | 200 |
| | | 1,1,1,2-tetrachloroethane | ND | 200 |
| | | ethyl benzene | 7,200 | 200 |
| | | m,p-xylene | 39,000 | 200 |
| | | styrene | ND | 200 |
| | | o-xylene | 18,000 | 200 |
| | | bromoform (THM4) | ND | 200 |
| | | 1,1,2,2-tetrachloroethane | ND | 200 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|---------------|------------|
| 30145 | MW-20 | isopropyl benzene | 1,900 | 200 |
| | | 1,2,3-trichloropropane | ND | 200 |
| | | bromobenzene | ND | 200 |
| | | n-propyl benzene | 12,000 | 200 |
| | | 2-chlorotoluene | ND | 200 |
| | | 4-chlorotoluene | ND | 200 |
| | | 1,3,5-trimethylbenzene | 42,000 | 200 |
| | | tert-butylbenzene | ND | 200 |
| | | 1,2,4-trimethylbenzene | 150,000 | 200 |
| | | sec-butylbenzene | 2,700 | 200 |
| | | 1,3-dichlorobenzene | ND | 200 |
| | | 1,4-dichlorobenzene | ND | 200 |
| | | 1,2-dichlorobenzene | ND | 200 |
| | | p-isopropyltoluene | 2,100 | 200 |
| | | n-butylbenzene | 22,000 | 200 |
| | | 1,2,4-trichlorobenzene | ND | 200 |
| | | naphthalene | 46,000 | 200 |
| | | hexachlorobutadiene | ND | 200 |
| | | 1,2,3-trichlorobenzene | ND | 200 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-------|
| tert-butyl alcohol (TBA) | ND | 5,000 |
| methyl tert-butyl ether (MTBE) | ND | 200 |
| di-isopropyl ether (DIPE) | ND | 200 |
| ethyl tert-butyl ether (ETBE) | ND | 200 |
| tert-amyl methyl ether (TAME) | ND | 200 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.0 | 100 | 70 – 130 |
| toluene-d ₈ (20) | 20.2 | 101 | 70 – 130 |
| 4-bromofluorobenzene (20) | 25.1 | 126 | 70 – 130 |

| | | | | | |
|----------------|----------|----------------|-----------|-------------|------|
| Date Sampled: | 06/08/05 | Date Analyzed: | 06/13/05 | QC Batch #: | 5576 |
| Date Received: | 06/09/05 | Method: | EPA 8260B | | |

(1) The sample exhibited floating product. The sample for analysis was taken from beneath the floating product surface.



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30146 | Standpipe | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorofluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | ND | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | ND | 1.0 |
| | | m,p-xylene | ND | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | ND | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|---------------|------------|
| 30146 | Standpipe | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | ND | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | ND | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | ND | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | ND | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | ND | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.2 | 102 | 70 – 130 |
| toluene-d ₈ (20) | 20.0 | 100 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.8 | 94.0 | 70 – 130 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/13/05 | QC Batch #: 5576 |
| Date Received: 06/09/05 | Method: EPA 8260B | |



LABORATORY

QUALITY ASSURANCE REPORT

QC Batch #: 5575

Lab Project #: 5060907

| Sample ID | Compound | Result (ug/L) |
|-----------|---------------|---------------|
| MB | TPH/Gas | ND |
| MB | MTBE | ND |
| MB | Benzene | ND |
| MB | Toluene | ND |
| MB | Ethyl Benzene | ND |
| MB | Xylenes | ND |

| Sample # | Sample ID | Compound | Result (ug/L) | Spike Level | % Recv. |
|----------|-----------|---------------|---------------|-------------|---------|
| 30132 | CMS | TPH/Gas | | NS | |
| | CMS | Benzene | 9.60 | 10.0 | 96.0 |
| | CMS | Toluene | 9.33 | 10.0 | 93.3 |
| | CMS | Ethyl Benzene | 9.62 | 10.0 | 96.2 |
| | CMS | Xylenes | 30.4 | 30.0 | 101 |

| Sample # | Sample ID | Compound | Result (ug/L) | Spike Level | % Recv. | RPD |
|----------|-----------|---------------|---------------|-------------|---------|-----|
| 30132 | CMSD | TPH/Gas | | NS | | |
| | CMSD | Benzene | 9.75 | 10.0 | 97.5 | 1.5 |
| | CMSD | Toluene | 9.45 | 10.0 | 94.5 | 1.3 |
| | CMSD | Ethyl Benzene | 10.1 | 10.0 | 101 | 4.6 |
| | CMSD | Xylenes | 31.0 | 30.0 | 103 | 2.1 |

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



QC Batch #: 5576

Lab Project #: 5060907

| Sample ID | Compound Name | Result (ug/L) |
|-----------|--------------------|---------------|
| MB | 1,1-dichloroethene | ND |
| MB | benzene | ND |
| MB | trichloroethene | ND |
| MB | toluene | ND |
| MB | chlorobenzene | ND |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 19.7 | 98.5 | 70 – 130 |
| toluene-d ₈ (20) | 19.7 | 98.5 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.3 | 91.5 | 70 – 130 |

| Sample ID | Compound Name | Result (ug/L) | Spike Level | % Recv. |
|-----------|--------------------|---------------|-------------|---------|
| LCS | 1,1-dichloroethene | 28.5 | 25.0 | 103 |
| LCS | benzene | 25.3 | 25.0 | 101 |
| LCS | trichloroethene | 24.3 | 25.0 | 97.2 |
| LCS | toluene | 24.8 | 25.0 | 99.2 |
| LCS | chlorobenzene | 24.8 | 25.0 | 98.8 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.0 | 100 | 70 – 130 |
| toluene-d ₈ (20) | 19.8 | 99.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.5 | 92.5 | 70 – 130 |



| Sample ID | Compound Name | Result (ug/L) | Spike Level | % Recv. | RPD |
|-----------|--------------------|---------------|-------------|---------|-----|
| LCSD | 1,1-dichloroethene | 27.7 | 25.0 | 111 | 2.8 |
| LCSD | benzene | 25.2 | 25.0 | 101 | .39 |
| LCSD | trichloroethene | 23.8 | 25.0 | 95.2 | 2.1 |
| LCSD | toluene | 24.5 | 25.0 | 98.0 | 1.2 |
| LCSD | chlorobenzene | 24.7 | 25.0 | 98.8 | 0.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.2 | 101 | 70 – 130 |
| toluene-d ₈ (20) | 19.6 | 98.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.5 | 92.5 | 70 – 130 |

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



Analytical Sciences

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128



CHAIN OF CUSTODY

5060907

| CLIENT INFORMATION | | BILLING INFORMATION | |
|----------------------------------|------------------------------|-------------------------------|--|
| COMPANY NAME: SCS ENGINEERS | CONTACT: John Riddell | SCS ENGINEERS PROJECT NUMBER: | Hessel Road |
| ADDRESS: 3645 WESTWIND BOULEVARD | COMPANY NAME: 466 Hessel Rd | SCS ENGINEERS PROJECT NUMBER: | O/203317.00 |
| SANTA ROSA, CA 95403 | ADDRESS: Sebastopol CA 95472 | TURNAROUND TIME (check one) | |
| CONTACT: | | SAME DAY | 24 HOURS |
| PHONE#: (707) 546-9461 | PHONE#: | 48 HOURS | 72 HOURS |
| FAX #: (707) 544-5769 | FAX #: | 5 DAYS | NORMAL <input checked="" type="checkbox"/> |

| | |
|---------------------|--|
| LAB PROJECT NUMBER: | 5060907 |
| GEOTRACKER EDF: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| GLOBAL ID: | T6609070038 |
| COOLER TEMPERATURE: | _____ °C |

| ITEM | CLIENT SAMPLE I.D. | DATE SAMPLED | TIME | MATRIX | # | PRESV. YES/NO | CONT. | ANALYSIS | | TOTAL LEAD | CA/M 17 METALS / 5 ULMETALS / PESTICIDES / PCB'S | PAGE ____ OF ____ |
|------|--------------------|--------------|-------|--------|---|---------------|-------|----------|--------------------|------------|--|-------------------|
| | | | | | | | | TRH/TOG | SM 5520F/EPA 4181M | | | |
| 1 | MJN-18 | 6-8 | 11:35 | Liq. | 4 | X | X | | | 30/14/3 | | |
| 2 | MJN-19D | 6-8 | 12:30 | | | | | | | 30/14/4 | | |
| 3 | MJN-20 | 6-8 | 12:35 | | | | | | | 30/14/5 | | |
| 4 | STAN-DIE | 6-8 | 2:50 | | | | | | | 30/14/6 | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |

| | | | |
|------------------|--------------|-------------|-------------------------|
| RELINQUISHED BY: | DATE: 6-9-05 | TIME: 11:05 | RECEIVED BY LABORATORY: |
| RECEIVED BY: | DATE: | TIME: | |
| RELINQUISHED BY: | DATE: | TIME: | |
| RECEIVED BY: | DATE: | TIME: | SIGNATURE: Ricco |
| | | | DATE: 6-9-05 |
| | | | TIME: 11:05 |



Report Date: June 17, 2005

Stephen Knuttel
SCS Engineers
3645 Westwind Blvd.
Santa Rosa, CA 95403

LABORATORY REPORT

Project Name: **Hessel Rd.** **01203317.00**

Lab Project Number: **5060908**

This 7 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director



TPH Gasoline in Water

| Lab # | Sample ID | Analysis | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--------------|---------------|------------|
| 30147 | DW-HD2 | TPH/Gasoline | ND | 50 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05 | QC Batch #: 5575 |
| Date Received: 06/09/05 | Method: EPA 5030/8015M | |



Volatile Hydrocarbons by GC/MS in Water

| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30147 | DW-HD2 | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorofluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | ND | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | ND | 1.0 |
| | | m,p-xylene | ND | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | ND | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|------------------|---------------|
| 30147 | DW-HD2 | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | ND | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | ND | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | ND | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | ND | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | ND | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.4 | 102 | 70 – 130 |
| toluene-d ₈ (20) | 19.8 | 99.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.6 | 93.0 | 70 – 130 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05 | QC Batch #: 5576 |
| Date Received: 06/09/05 | Method: EPA 8260B | |



LABORATORY

QUALITY ASSURANCE REPORT

QC Batch #: 5575

Lab Project #: 5060908

| Sample ID | Compound | Result (ug/L) |
|-----------|---------------|---------------|
| MB | TPH/Gas | ND |
| MB | MTBE | ND |
| MB | Benzene | ND |
| MB | Toluene | ND |
| MB | Ethyl Benzene | ND |
| MB | Xylenes | ND |

| Sample # | Sample ID | Compound | Result (ug/L) | Spike Level | % Recv. |
|----------|-----------|---------------|---------------|-------------|---------|
| 30132 | CMS | TPH/Gas | | NS | |
| | CMS | Benzene | 9.60 | 10.0 | 96.0 |
| | CMS | Toluene | 9.33 | 10.0 | 93.3 |
| | CMS | Ethyl Benzene | 9.62 | 10.0 | 96.2 |
| | CMS | Xylenes | 30.4 | 30.0 | 101 |

| Sample # | Sample ID | Compound | Result (ug/L) | Spike Level | % Recv. | RPD |
|----------|-----------|---------------|---------------|-------------|---------|-----|
| 30132 | CMSD | TPH/Gas | | NS | | |
| | CMSD | Benzene | 9.75 | 10.0 | 97.5 | 1.5 |
| | CMSD | Toluene | 9.45 | 10.0 | 94.5 | 1.3 |
| | CMSD | Ethyl Benzene | 10.1 | 10.0 | 101 | 4.6 |
| | CMSD | Xylenes | 31.0 | 30.0 | 103 | 2.1 |

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



QC Batch #: 5576

Lab Project #: 5060908

| Sample ID | Compound Name | Result (ug/L) |
|-----------|--------------------|---------------|
| MB | 1,1-dichloroethene | ND |
| MB | benzene | ND |
| MB | trichloroethene | ND |
| MB | toluene | ND |
| MB | chlorobenzene | ND |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 19.7 | 98.5 | 70 – 130 |
| toluene-d ₈ (20) | 19.7 | 98.5 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.3 | 91.5 | 70 – 130 |

| Sample ID | Compound Name | Result (ug/L) | Spike Level | % Recv. |
|-----------|--------------------|---------------|-------------|---------|
| CMS | 1,1-dichloroethene | 28.5 | 25.0 | 103 |
| CMS | benzene | 25.3 | 25.0 | 101 |
| CMS | trichloroethene | 24.3 | 25.0 | 97.2 |
| CMS | toluene | 24.8 | 25.0 | 99.2 |
| CMS | chlorobenzene | 24.8 | 25.0 | 98.8 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.0 | 100 | 70 – 130 |
| toluene-d ₈ (20) | 19.8 | 99.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.5 | 92.5 | 70 – 130 |



| Sample ID | Compound Name | Result (ug/L) | Spike Level | % Recv. | RPD |
|-----------|--------------------|---------------|-------------|---------|-----|
| CMSD | 1,1-dichloroethene | 27.7 | 25.0 | 111 | 2.8 |
| CMSD | benzene | 25.2 | 25.0 | 101 | .39 |
| CMSD | trichloroethene | 23.8 | 25.0 | 95.2 | 2.1 |
| CMSD | toluene | 24.5 | 25.0 | 98.0 | 1.2 |
| CMSD | chlorobenzene | 24.7 | 25.0 | 98.8 | 0.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.2 | 101 | 70 – 130 |
| toluene-d ₈ (20) | 19.6 | 98.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.5 | 92.5 | 70 – 130 |

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



CHAIN OF CUSTODY

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P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128

| | | | |
|--------------------|---|---------------------|----------------------------|
| CLIENT INFORMATION | | BILLING INFORMATION | |
| COMPANY NAME: | SCS ENGINEERS | CONTACT: | <u>John Helle</u> |
| ADDRESS: | 3645 WESTWIND BOULEVARD SANTA ROSA, CA 95403 | COMPANY NAME: | <u>Uvalde Hesse</u> Road |
| CONTACT: | <u>Steven Lawtell</u> | ADDRESS: | <u>Sebastopol</u> CA 95472 |
| PHONE#: | (707) 546-9461 | PHONE#: | (707) 823-1976 |
| FAX #: | (707) 544-5769 | FAX #: | |

| | | | |
|-------------------------------|--------------------------|--|-------------------------------------|
| LAB PROJECT NUMBER: | 5040908 | | |
| SCS ENGINEERS PROJECT NAME: | Horse Load | | |
| SCS ENGINEERS PROJECT NUMBER: | 0120317.00 | | |
| TURNAROUND TIME CHECK ONE | | | |
| MOBILE LAB | <input type="checkbox"/> | 24 HOURS | <input type="checkbox"/> |
| SAME DAY | <input type="checkbox"/> | 72 HOURS | <input type="checkbox"/> |
| 48 HOURS | <input type="checkbox"/> | NORMAL | <input checked="" type="checkbox"/> |
| 5 DAYS | <input type="checkbox"/> | COOLER TEMPERATURE GLOBAL ID: TO609700318 Y <input type="checkbox"/> N <input type="checkbox"/> °C COC | |

| | | | |
|-------------------------------|--------------------------|---|-------------------------------------|
| LAB PROJECT NUMBER: | 5040908 | | |
| SCS ENGINEERS PROJECT NAME: | Horse Load | | |
| SCS ENGINEERS PROJECT NUMBER: | 0120317.00 | | |
| TURNAROUND TIME CHECK ONE | | | |
| MOBILE LAB | <input type="checkbox"/> | 24 HOURS | <input type="checkbox"/> |
| SAME DAY | <input type="checkbox"/> | 72 HOURS | <input type="checkbox"/> |
| 48 HOURS | <input type="checkbox"/> | NORMAL | <input checked="" type="checkbox"/> |
| 5 DAYS | <input type="checkbox"/> | COOLER TEMPERATURE GLOBAL ID: T0609700318 Y N _____ °C COC | |

| ITEM | CLIENT SAMPLE I.D. | DATE SAMPLED | TIME | MATRIX | # CONT. | PRESV. YES/N NO | TOTAL LEAD | | COMMENTS | LAB SAMPLE # |
|------------------------|--------------------|-----------------|------|--------|------------|-----------------------|---|--|---------------------|--------------------|
| | | | | | | | 5 LUFET METALS / CAM 117 METALS / PCBS / EPA 8081 / 8141 / 8082 | SM 5520F / EPA 418.1M TPH/TOG HYDROCARBONS EPA 8270 | | |
| TPH/GASOLINE | DN-HD2 | 6/8 | 130 | L/G | 4 | Y | X | X | Sample date 5/20/97 | 26147 |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| VOLATILE | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| CHLORINATED | | | | | | | | | | |
| SOLVENTS | | | | | | | | | | |
| SEMIVOLATILE | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8260M | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| EPA 8260B | | | | | | | | | | |
| BTEX OXYGENATES | | | | | | | | | | |
| + PB SCAVENGES | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| + Oxy / Fuel Additives | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| EPA 8015 | | | | | | | | | | |
| TPH DIESEL / | | | | | | | | | | |
| EPA 8080 | | | | | | | | | | |
| TPH/GASOLINE | | | | | | | | | | |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| VOLATILE | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| + Oxy / Fuel Additives | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| EPA 8080 | | | | | | | | | | |
| TPH/GASOLINE | | | | | | | | | | |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| VOLATILE | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| + Oxy / Fuel Additives | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| EPA 8080 | | | | | | | | | | |
| TPH/GASOLINE | | | | | | | | | | |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| VOLATILE | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| + Oxy / Fuel Additives | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| EPA 8080 | | | | | | | | | | |
| TPH/GASOLINE | | | | | | | | | | |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| VOLATILE | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| + Oxy / Fuel Additives | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| EPA 8080 | | | | | | | | | | |
| TPH/GASOLINE | | | | | | | | | | |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| VOLATILE | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| + Oxy / Fuel Additives | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| EPA 8080 | | | | | | | | | | |
| TPH/GASOLINE | | | | | | | | | | |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| VOLATILE | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| + Oxy / Fuel Additives | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| EPA 8080 | | | | | | | | | | |
| TPH/GASOLINE | | | | | | | | | | |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| VOLATILE | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| + Oxy / Fuel Additives | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| EPA 8080 | | | | | | | | | | |
| TPH/GASOLINE | | | | | | | | | | |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| VOLATILE | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| + Oxy / Fuel Additives | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| EPA 8080 | | | | | | | | | | |
| TPH/GASOLINE | | | | | | | | | | |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| VOLATILE | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| + Oxy / Fuel Additives | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| EPA 8080 | | | | | | | | | | |
| TPH/GASOLINE | | | | | | | | | | |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| VOLATILE | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| + Oxy / Fuel Additives | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| EPA 8080 | | | | | | | | | | |
| TPH/GASOLINE | | | | | | | | | | |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| VOLATILE | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| + Oxy / Fuel Additives | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| EPA 8080 | | | | | | | | | | |
| TPH/GASOLINE | | | | | | | | | | |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| VOLATILE | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| + Oxy / Fuel Additives | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| EPA 8080 | | | | | | | | | | |
| TPH/GASOLINE | | | | | | | | | | |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| VOLATILE | | | | | | | | | | |
| OXYGENATED | | | | | | | | | | |
| FUEL ADDITIVES | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| + Oxy / Fuel Additives | | | | | | | | | | |
| EPA 8260 FULL List | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |
| EPA 8015M | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| EPA 8080 | | | | | | | | | | |
| TPH/GASOLINE | | | | | | | | | | |
| TPH/DIESEL | | | | | | | | | | |
| MOTOR OIL | | | | | | | | | | |
| HYDROCARBONS | | | | | | | | | | |

| SIGNATURES | | | |
|------------------|---------------------|--------------------|-------------------------|
| RElinquished By: | DATE: <u>6-5-05</u> | TIME: <u>11:05</u> | RECEIVED BY LABORATORY: |
| RECEIVED By: | DATE: _____ | TIME: _____ | <u>piccicci</u> |
| RElinquished By: | DATE: _____ | TIME: _____ | SIGNATURE |
| RECEIVED By: | DATE: _____ | TIME: _____ | <u>6-9-05</u> |
| | | | DATE <u>11:05</u> TIME |



Report Date: June 17, 2005

Stephen Knuttel
SCS Engineers
3645 Westwind Blvd.
Santa Rosa, CA 95403

LABORATORY REPORT

Project Name: **Hessel Rd.** **01203317.00**

Lab Project Number: **5060908**

This 7 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director



TPH Gasoline in Water

| Lab # | Sample ID | Analysis | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--------------|---------------|------------|
| 30147 | DW-HD2 | TPH/Gasoline | ND | 50 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05 | QC Batch #: 5575 |
| Date Received: 06/09/05 | Method: EPA 5030/8015M | |



Volatile Hydrocarbons by GC/MS in Water

| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30147 | DW-HD2 | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorofluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | ND | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | ND | 1.0 |
| | | m,p-xylene | ND | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | ND | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|------------------|---------------|
| 30147 | DW-HD2 | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | ND | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | ND | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | ND | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | ND | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | ND | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.4 | 102 | 70 – 130 |
| toluene-d ₈ (20) | 19.8 | 99.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.6 | 93.0 | 70 – 130 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05 | QC Batch #: 5576 |
| Date Received: 06/09/05 | Method: EPA 8260B | |



LABORATORY

QUALITY ASSURANCE REPORT

QC Batch #: 5575

Lab Project #: 5060908

| Sample ID | Compound | Result (ug/L) |
|-----------|---------------|---------------|
| MB | TPH/Gas | ND |
| MB | MTBE | ND |
| MB | Benzene | ND |
| MB | Toluene | ND |
| MB | Ethyl Benzene | ND |
| MB | Xylenes | ND |

| Sample # | Sample ID | Compound | Result (ug/L) | Spike Level | % Recv. |
|----------|-----------|---------------|---------------|-------------|---------|
| 30132 | CMS | TPH/Gas | | NS | |
| | CMS | Benzene | 9.60 | 10.0 | 96.0 |
| | CMS | Toluene | 9.33 | 10.0 | 93.3 |
| | CMS | Ethyl Benzene | 9.62 | 10.0 | 96.2 |
| | CMS | Xylenes | 30.4 | 30.0 | 101 |

| Sample # | Sample ID | Compound | Result (ug/L) | Spike Level | % Recv. | RPD |
|----------|-----------|---------------|---------------|-------------|---------|-----|
| 30132 | CMSD | TPH/Gas | | NS | | |
| | CMSD | Benzene | 9.75 | 10.0 | 97.5 | 1.5 |
| | CMSD | Toluene | 9.45 | 10.0 | 94.5 | 1.3 |
| | CMSD | Ethyl Benzene | 10.1 | 10.0 | 101 | 4.6 |
| | CMSD | Xylenes | 31.0 | 30.0 | 103 | 2.1 |

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



QC Batch #: 5576

Lab Project #: 5060908

| Sample ID | Compound Name | Result (ug/L) |
|-----------|--------------------|---------------|
| MB | 1,1-dichloroethene | ND |
| MB | benzene | ND |
| MB | trichloroethene | ND |
| MB | toluene | ND |
| MB | chlorobenzene | ND |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 19.7 | 98.5 | 70 – 130 |
| toluene-d ₈ (20) | 19.7 | 98.5 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.3 | 91.5 | 70 – 130 |

| Sample ID | Compound Name | Result (ug/L) | Spike Level | % Recv. |
|-----------|--------------------|---------------|-------------|---------|
| CMS | 1,1-dichloroethene | 28.5 | 25.0 | 103 |
| CMS | benzene | 25.3 | 25.0 | 101 |
| CMS | trichloroethene | 24.3 | 25.0 | 97.2 |
| CMS | toluene | 24.8 | 25.0 | 99.2 |
| CMS | chlorobenzene | 24.8 | 25.0 | 98.8 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.0 | 100 | 70 – 130 |
| toluene-d ₈ (20) | 19.8 | 99.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.5 | 92.5 | 70 – 130 |



| Sample ID | Compound Name | Result (ug/L) | Spike Level | % Recv. | RPD |
|-----------|--------------------|---------------|-------------|---------|-----|
| CMSD | 1,1-dichloroethene | 27.7 | 25.0 | 111 | 2.8 |
| CMSD | benzene | 25.2 | 25.0 | 101 | .39 |
| CMSD | trichloroethene | 23.8 | 25.0 | 95.2 | 2.1 |
| CMSD | toluene | 24.5 | 25.0 | 98.0 | 1.2 |
| CMSD | chlorobenzene | 24.7 | 25.0 | 98.8 | 0.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.2 | 101 | 70 – 130 |
| toluene-d ₈ (20) | 19.6 | 98.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.5 | 92.5 | 70 – 130 |

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



Analytical Sciences

P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128

CHAIN OF CUSTODY

| CLIENT INFORMATION | | BILLING INFORMATION | |
|--------------------|---|---------------------|--|
| COMPANY NAME: | SCS ENGINEERS | CONTACT: | John J. Helle |
| ADDRESS: | 3645 WESTWIND BOULEVARD SANTA ROSA, CA 95403 | COMPANY NAME: | U.S. Weld Hessel Land Sebastopol CA 95472 |
| CONTACT: | Steven Laddie | ADDRESS: | |
| PHONE#: | (707) 546-9461 | PHONE#: | 707-823-1976 |
| FAX #: | (707) 544-5769 | FAX #: | |

| ANALYSIS | | ANALYSIS | |
|----------|--------------------|--------------|------|
| ITEM | CLIENT SAMPLE I.D. | DATE SAMPLED | TIME |
| 1 | DN-HD2 | 6-8 | 130 |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |

| ANALYSIS | | ANALYSIS | |
|----------|--------------------|--------------|------|
| ITEM | CLIENT SAMPLE I.D. | DATE SAMPLED | TIME |
| 1 | DN-HD2 | 6-8 | 130 |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |

| ANALYSIS | | ANALYSIS | |
|----------|--------------------|--------------|------|
| ITEM | CLIENT SAMPLE I.D. | DATE SAMPLED | TIME |
| 1 | DN-HD2 | 6-8 | 130 |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |

| ANALYSIS | | ANALYSIS | |
|----------|--------------------|--------------|------|
| ITEM | CLIENT SAMPLE I.D. | DATE SAMPLED | TIME |
| 1 | DN-HD2 | 6-8 | 130 |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |

| ITEM | CLIENT SAMPLE I.D. | DATE SAMPLED | TIME | MATRIX | # CONT. | PRESV. YES/NO | LAB TRACKER ED#: | GLOBAL ID: | COOLER TEMPERATURE: | PAGE ____ OF ____ |
|------|--------------------|--------------|------|--------|---------|---------------|------------------|------------|---------------------|-------------------|
| 1 | DN-HD2 | 6-8 | 130 | LQ | 4 | Y | | | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |

| SIGNATURES | | SIGNATURES | |
|------------------|--------------------------|----------------------------------|-------------------------------|
| RELINQUISHED BY: | DATE: 6-8-05 TIME: 11:05 | RECEIVED BY LABORATORY: | DATE: _____ TIME: _____ |
| RECEIVED By: | DATE: _____ TIME: _____ | RELINQUISHED BY: | DATE: _____ TIME: _____ |
| RELINQUISHED BY: | DATE: _____ TIME: _____ | RECEIVED By: | DATE: _____ TIME: _____ |
| RECEIVED By: | DATE: _____ TIME: _____ | SIGNATURE: <i>C. C. C. C. C.</i> | SIGNATURE: <i>J. Greenlee</i> |
| RECEIVED By: | DATE: _____ TIME: _____ | SIGNATURE: <i>G-9-OS</i> | SIGNATURE: <i>11-05</i> |



Report Date: June 17, 2005

Stephen Knuttel
SCS Engineers
3645 Westwind Blvd.
Santa Rosa, CA 95403

LABORATORY REPORT

Project Name: **Hessel Rd.** **01203317.00**

Lab Project Number: **5060909**

This 7 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director



TPH Gasoline in Water

| Lab # | Sample ID | Analysis | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--------------|---------------|------------|
| 30148 | DW-4615 | TPH/Gasoline | ND | 50 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05 | QC Batch #: 5575 |
| Date Received: 06/09/05 | Method: EPA 5030/8015M | |



Volatile Hydrocarbons by GC/MS in Water

| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30148 | DW-4615 | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorofluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | ND | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | ND | 1.0 |
| | | m,p-xylene | ND | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | ND | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|------------------|---------------|
| 30148 | DW-4615 | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | ND | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | ND | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | ND | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | ND | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | ND | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.3 | 102 | 70 – 130 |
| toluene-d ₈ (20) | 19.6 | 98.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.5 | 92.5 | 70 – 130 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05 | QC Batch #: 5576 |
| Date Received: 06/09/05 | Method: EPA 8260B | |



LABORATORY

QUALITY ASSURANCE REPORT

QC Batch #: 5575

Lab Project #: 5060909

| Sample ID | Compound | Result (ug/L) |
|-----------|---------------|---------------|
| MB | TPH/Gas | ND |
| MB | MTBE | ND |
| MB | Benzene | ND |
| MB | Toluene | ND |
| MB | Ethyl Benzene | ND |
| MB | Xylenes | ND |

| Sample # | Sample ID | Compound | Result (ug/L) | Spike Level | % Recv. |
|----------|-----------|---------------|---------------|-------------|---------|
| 30132 | CMS | TPH/Gas | | NS | |
| | CMS | Benzene | 9.60 | 10.0 | 96.0 |
| | CMS | Toluene | 9.33 | 10.0 | 93.3 |
| | CMS | Ethyl Benzene | 9.62 | 10.0 | 96.2 |
| | CMS | Xylenes | 30.4 | 30.0 | 101 |

| Sample # | Sample ID | Compound | Result (ug/L) | Spike Level | % Recv. | RPD |
|----------|-----------|---------------|---------------|-------------|---------|-----|
| 30132 | CMSD | TPH/Gas | | NS | | |
| | CMSD | Benzene | 9.75 | 10.0 | 97.5 | 1.5 |
| | CMSD | Toluene | 9.45 | 10.0 | 94.5 | 1.3 |
| | CMSD | Ethyl Benzene | 10.1 | 10.0 | 101 | 4.6 |
| | CMSD | Xylenes | 31.0 | 30.0 | 103 | 2.1 |

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



QC Batch #: 5576

Lab Project #: 5060909

| Sample ID | Compound Name | Result (ug/L) |
|-----------|--------------------|---------------|
| MB | 1,1-dichloroethene | ND |
| MB | benzene | ND |
| MB | trichloroethene | ND |
| MB | toluene | ND |
| MB | chlorobenzene | ND |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 19.7 | 98.5 | 70 – 130 |
| toluene-d ₈ (20) | 19.7 | 98.5 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.3 | 91.5 | 70 – 130 |

| Sample ID | Compound Name | Result (ug/L) | Spike Level | % Recv. |
|-----------|--------------------|---------------|-------------|---------|
| LCS | 1,1-dichloroethene | 28.5 | 25.0 | 103 |
| LCS | benzene | 25.3 | 25.0 | 101 |
| LCS | trichloroethene | 24.3 | 25.0 | 97.2 |
| LCS | toluene | 24.8 | 25.0 | 99.2 |
| LCS | chlorobenzene | 24.8 | 25.0 | 98.8 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.0 | 100 | 70 – 130 |
| toluene-d ₈ (20) | 19.8 | 99.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.5 | 92.5 | 70 – 130 |



| Sample ID | Compound Name | Result (ug/L) | Spike Level | % Recv. | RPD |
|-----------|--------------------|---------------|-------------|---------|------|
| LCSD | 1,1-dichloroethene | 27.7 | 25.0 | 111 | 2.8 |
| LCSD | benzene | 25.2 | 25.0 | 101 | 0.39 |
| LCSD | trichloroethene | 23.8 | 25.0 | 95.2 | 2.1 |
| LCSD | toluene | 24.5 | 25.0 | 98.0 | 1.2 |
| LCSD | chlorobenzene | 24.7 | 25.0 | 98.8 | 0.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.2 | 101 | 70 – 130 |
| toluene-d ₈ (20) | 19.6 | 98.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.5 | 92.5 | 70 – 130 |

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery

**CHAIN OF CUSTODY**

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128



| CLIENT INFORMATION | | BILLING INFORMATION | |
|--------------------|-------------------------|---------------------|---------------------|
| COMPANY NAME: | SCS ENGINEERS | CONTACT: | John Helle |
| ADDRESS: | 3645 WESTWIND BOULEVARD | COMPANY NAME: | Global Hassel Load |
| CONTACT: | SANTA ROSA, CA 95403 | ADDRESS: | Sebastopol CA 95472 |
| PHONE#: | (707) 546-9461 | PHONE#: | (707) 823-1976 |
| FAX #: | (707) 544-5769 | FAX #: | |

| | |
|-------------------------------|-------------|
| LAB PROJECT NUMBER: | 5616906 |
| SCS ENGINEERS PROJECT NAME: | Hassel Load |
| SCS ENGINEERS PROJECT NUMBER: | 01203317.00 |
| TURNAROUND TIME | |
| MOBILE LAB | 24 HOURS |
| SAME DAY | 72 HOURS |
| 48 HOURS | NORMAL |
| 5 DAYS | X |
| COC | |

| ITEM | CLIENT SAMPLE I.D. | DATE SAMPLED | TIME | MATRIX | # | PRESV. CONT. | COMMENTS | LAB SAMPLE # | PAGE ____ OF ____ |
|------|--------------------|--------------|------|--------|---|-----------------|----------|--------------------|------------------------|
| | | | | | | | | | ANALYSIS |
| 1 | DN-4615 | 6-8 | 115 | Liq | 4 | X | X | | EPA 6260B |
| 2 | | | | | | | | | +PB SCAVENGEERS |
| 3 | | | | | | | | | +OXY ADDITIVES |
| 4 | | | | | | | | | FUEL ADDITIVES |
| 5 | | | | | | | | | CHLORINATED |
| 6 | | | | | | | | | SOLVENTS |
| 7 | | | | | | | | | SEMIVOLATILE |
| 8 | | | | | | | | | HYDROCARBONS |
| 9 | | | | | | | | | TRH / TOG |
| 10 | | | | | | | | | SM 5520F / EPA 4182M |
| 11 | | | | | | | | | EPA 8085 / 8141 / 8002 |
| | | | | | | | | | PCBS / PCB'S |
| | | | | | | | | | CAM 17 METALS / |
| | | | | | | | | | 5 LULFT METALS / |
| | | | | | | | | | GeoTRACKER EDF: Y N |
| | | | | | | | | | GLOBAL ID: 1009700318 |
| | | | | | | | | | COOLER TEMPERATURE °C |
| | | | | | | | | | TOTAL LEAD |

| RELINQUISHER BY: | | RECEIVED BY LABORATORY: | |
|------------------|--|-------------------------|-------|
| RECEIVED BY: | | DATE: | TIME: |
| RELINQUISHED BY: | | DATE: | TIME: |
| RECEIVED BY: | | DATE: | TIME: |
| | | | |



Report Date: June 17, 2005

Stephen Knuttel
SCS Engineers
3645 Westwind Blvd.
Santa Rosa, CA 95403

LABORATORY REPORT

Project Name: **Hessel Rd.** **01203317.00**

Lab Project Number: **5060910**

This 7 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director



TPH Gasoline in Water

| Lab # | Sample ID | Analysis | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--------------|---------------|------------|
| 30149 | DW-3 | TPH/Gasoline | ND | 50 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05 | QC Batch #: 5575 |
| Date Received: 06/09/05 | Method: EPA 5030/8015M | |



Volatile Hydrocarbons by GC/MS in Water

| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|--|------------------|---------------|
| 30149 | DW-3 | dichlorodifluoromethane | ND | 1.0 |
| | | chloromethane | ND | 1.0 |
| | | vinyl chloride | ND | 1.0 |
| | | chloroethane | ND | 1.0 |
| | | bromomethane | ND | 1.0 |
| | | trichlorofluoromethane | ND | 1.0 |
| | | 1,1-dichloroethene (1,1-DCE) | ND | 1.0 |
| | | methylene chloride | ND | 1.0 |
| | | trans-1,2-dichloroethene (trans-1,2-DCE) | ND | 1.0 |
| | | 1,1-dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-dichloroethene (cis-1,2-DCE) | ND | 1.0 |
| | | 2,2-dichloropropane | ND | 1.0 |
| | | chloroform (THM1) | ND | 1.0 |
| | | bromochloromethane | ND | 1.0 |
| | | 1,1,1-trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-dichloropropene | ND | 1.0 |
| | | carbon tetrachloride | ND | 1.0 |
| | | benzene | ND | 1.0 |
| | | trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-dichloropropane (DCP) | ND | 1.0 |
| | | dibromomethane | ND | 1.0 |
| | | bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-dichloropropene | ND | 1.0 |
| | | toluene | ND | 1.0 |
| | | 1,1,2-trichloroethane | ND | 1.0 |
| | | 1,3-dichloropropane | ND | 1.0 |
| | | dibromochloromethane (THM3) | ND | 1.0 |
| | | tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-dibromoethane (EDB) | ND | 1.0 |
| | | chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-tetrachloroethane | ND | 1.0 |
| | | ethyl benzene | ND | 1.0 |
| | | m,p-xylene | ND | 1.0 |
| | | styrene | ND | 1.0 |
| | | o-xylene | ND | 1.0 |
| | | bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-tetrachloroethane | ND | 1.0 |



| Lab # | Sample ID | Compound Name | Result (ug/L) | RDL (ug/L) |
|-------|-----------|------------------------|---------------|------------|
| 30149 | DW-3 | isopropyl benzene | ND | 1.0 |
| | | 1,2,3-trichloropropane | ND | 1.0 |
| | | bromobenzene | ND | 1.0 |
| | | n-propyl benzene | ND | 1.0 |
| | | 2-chlorotoluene | ND | 1.0 |
| | | 4-chlorotoluene | ND | 1.0 |
| | | 1,3,5-trimethylbenzene | ND | 1.0 |
| | | tert-butylbenzene | ND | 1.0 |
| | | 1,2,4-trimethylbenzene | ND | 1.0 |
| | | sec-butylbenzene | ND | 1.0 |
| | | 1,3-dichlorobenzene | ND | 1.0 |
| | | 1,4-dichlorobenzene | ND | 1.0 |
| | | 1,2-dichlorobenzene | ND | 1.0 |
| | | p-isopropyltoluene | ND | 1.0 |
| | | n-butylbenzene | ND | 1.0 |
| | | 1,2,4-trichlorobenzene | ND | 1.0 |
| | | naphthalene | ND | 1.0 |
| | | hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-trichlorobenzene | ND | 1.0 |

Oxygenated Gasoline Additives

| | | |
|--------------------------------|----|-----|
| tert-butyl alcohol (TBA) | ND | 25 |
| methyl tert-butyl ether (MTBE) | ND | 1.0 |
| di-isopropyl ether (DIPE) | ND | 1.0 |
| ethyl tert-butyl ether (ETBE) | ND | 1.0 |
| tert-amyl methyl ether (TAME) | ND | 1.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.2 | 101 | 70 – 130 |
| toluene-d ₈ (20) | 19.6 | 98.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.7 | 93.5 | 70 – 130 |

| | | |
|-------------------------|-------------------------|------------------|
| Date Sampled: 06/08/05 | Date Analyzed: 06/10/05 | QC Batch #: 5576 |
| Date Received: 06/09/05 | Method: EPA 8260B | |



LABORATORY

QUALITY ASSURANCE REPORT

QC Batch #: 5575

Lab Project #: 5060910

| Sample ID | Compound | Result (ug/L) |
|-----------|---------------|---------------|
| MB | TPH/Gas | ND |
| MB | MTBE | ND |
| MB | Benzene | ND |
| MB | Toluene | ND |
| MB | Ethyl Benzene | ND |
| MB | Xylenes | ND |

| Sample # | Sample ID | Compound | Result (ug/L) | Spike Level | % Recv. |
|----------|-----------|---------------|---------------|-------------|---------|
| 30132 | CMS | TPH/Gas | | NS | |
| | CMS | Benzene | 9.60 | 10.0 | 96.0 |
| | CMS | Toluene | 9.33 | 10.0 | 93.3 |
| | CMS | Ethyl Benzene | 9.62 | 10.0 | 96.2 |
| | CMS | Xylenes | 30.4 | 30.0 | 101 |

| Sample # | Sample ID | Compound | Result (ug/L) | Spike Level | % Recv. | RPD |
|----------|-----------|---------------|---------------|-------------|---------|-----|
| 30132 | CMSD | TPH/Gas | | NS | | |
| | CMSD | Benzene | 9.75 | 10.0 | 97.5 | 1.5 |
| | CMSD | Toluene | 9.45 | 10.0 | 94.5 | 1.3 |
| | CMSD | Ethyl Benzene | 10.1 | 10.0 | 101 | 4.6 |
| | CMSD | Xylenes | 31.0 | 30.0 | 103 | 2.1 |

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



QC Batch #: 5576

Lab Project #: 5060910

| Sample ID | Compound Name | Result (ug/L) |
|-----------|--------------------|---------------|
| MB | 1,1-dichloroethene | ND |
| MB | benzene | ND |
| MB | trichloroethene | ND |
| MB | toluene | ND |
| MB | chlorobenzene | ND |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 19.7 | 98.5 | 70 – 130 |
| toluene-d ₈ (20) | 19.7 | 98.5 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.3 | 91.5 | 70 – 130 |

| Sample ID | Compound Name | Result (ug/L) | Spike Level | % Recv. |
|-----------|--------------------|---------------|-------------|---------|
| LCS | 1,1-dichloroethene | 28.5 | 25.0 | 103 |
| LCS | benzene | 25.3 | 25.0 | 101 |
| LCS | trichloroethene | 24.3 | 25.0 | 97.2 |
| LCS | toluene | 24.8 | 25.0 | 99.2 |
| LCS | chlorobenzene | 24.8 | 25.0 | 98.8 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.0 | 100 | 70 – 130 |
| toluene-d ₈ (20) | 19.8 | 99.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.5 | 92.5 | 70 – 130 |



| Sample ID | Compound Name | Result (ug/L) | Spike Level | % Recv. | RPD |
|-----------|--------------------|---------------|-------------|---------|-----|
| LCSD | 1,1-dichloroethene | 27.7 | 25.0 | 111 | 2.8 |
| LCSD | benzene | 25.2 | 25.0 | 101 | .39 |
| LCSD | trichloroethene | 23.8 | 25.0 | 95.2 | 2.1 |
| LCSD | toluene | 24.5 | 25.0 | 98.0 | 1.2 |
| LCSD | chlorobenzene | 24.7 | 25.0 | 98.8 | 0.0 |

| Surrogates | Result (ug/L) | % Recovery | Acceptance Range (%) |
|-----------------------------|---------------|------------|----------------------|
| dibromofluoromethane (20) | 20.2 | 101 | 70 – 130 |
| toluene-d ₈ (20) | 19.6 | 98.0 | 70 – 130 |
| 4-bromofluorobenzene (20) | 18.5 | 92.5 | 70 – 130 |

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



CHAIN OF CUSTODY

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(707) 760-2420



| CLIENT INFORMATION | | BLING INFORMATION | |
|-----------------------------|----------------------------------|------------------------------|--------------------------------|
| COMPANY NAME: SCS ENGINEERS | ADDRESS: 3645 WESTWIND BOULEVARD | CONTACT: John Hiddle | COMPANY NAME: (408) Hesse Land |
| | SANTA ROSA, CA 95403 | ADDRESS: Sebastopol CA 95472 | PHONE#: 707-823-1976 |
| CONTACT: Steven Knutel | PHONE#: (707) 546-9461 | FAX #: (707) 544-5769 | |

| | | | |
|-----------------------------|--|----------|---|
| LAB PROJECT NUMBER: | B06910 | | |
| PCS ENGINEERS PROJECT NAME: | <input checked="" type="checkbox"/> <i>hessel load</i> | | |
| ENGINEERS PROJECT NUMBER: | 01203317.00 | | |
| EXCAVATION TIME CHECK SHEET | | | |
| FILE LAB | 24 HOURS | 72 HOURS | COOLER TEMPERATURE |
| TIME DAY | _____ | _____ | _____ °C |
| HOURS | _____ | _____ | _____ |
| 5 DAYS | _____ | _____ | COC <input checked="" type="checkbox"/> |

| | | | | | |
|------------------|--------|--------|---------------|--------|--------|
| RELINQUISHED BY: | DATE:: | TIME:: | RECEIVED BY: | DATE:: | TIME:: |
| RECEIVED BY: | DATE:: | TIME:: | RELABORATORY: | | |
| RELINQUISHED BY: | DATE:: | TIME:: | SIGNATURE: | | |
| RECEIVED BY: | DATE:: | TIME:: | | | |

TIME
6-9-05 11:05